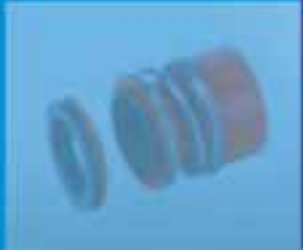


Cierres Mecánicos



Otros Productos

Motores Eléctricos

Retenes

Acoplamientos

Collarines

Rodamientos

Rascadores

Juntas Tóricas

Cordón Tórico

Empaquetaduras

Guías - PTFE + Bronce

301



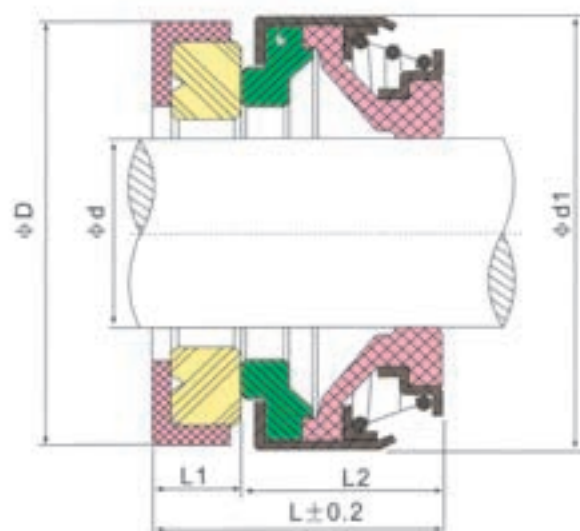
Operating Limits

Pressure: 0.6MPa

Speed: 10m/s

Temperature: -30℃~200℃

- Stationary Ring (Ceramic/SiC/TC)
- Rotary Ring (Carbon/SiC/TC)
- Secondary Seal (NBR/EPDM/VITON)
- Spring&Other Parts (SUS304/SUS316)



Mod. 301 Fitting Dimension

MODEL	d	d1	D	L	L1	L2
301-6	6	18	22	14	4	10
301-8	8	18	22	15	4	11
301-9	9	24	26	21	8	13
301-10	10	24	26	21	8	13
301-11	11	24	26	21	8	13
301-12	12	24	25/26	21	8	13
301-13	13	24	26	21	5.5/8	13
301-14	14	28	28/28.5	21	8	13
301-14L	14	32	29.5	21	8	13
301-15S	15	28	28.5/30	21	8	13
301-15M	15	32	30/29.5	21	8	13
301-16S	16	28	29.5/30	21	8	13
301-16M	16	32	29.5	21	8	13
301-16L	16	39	38	21	8	13
301-17	17	39	42	21	8	13
301-18	18	39	42	21	8	13
301-19	19	39	42	21	8	13
301-20	20	39	42	21	8	13
301-20L	●20	42	45	23	10	13

MODEL	d	d1	D	L	L1	L2
301-22	22	42	45	23	10	13
301-23	23	47	50	23.5	10	13.5
301-24	24	47	50	23.5	10	13.5
301-25S	25	42	50	23.5	10	13.5
301-25	25	47	50	23.5	10	13.5
301-26	26	47	50	23.5	10	13.5
301-27	27	47	50	23.5	10	13.5
301-28	28	54	57	25	10	15
301-30	30	54	57	25	10	15
301-32	32	54	57	25	10	15
301-35	35	60	63	26	10	16
301-38	38	65	68	30	12	18
301-40	40	65	68	30	12	18
301-45	45	70	73	32	12	20
301-50	50	85	88	38	15	23
301-55	55	85	88	38	15	23
301-60	60	105	110	45	15	30
301-65	65	105	110	45	15	30
301-70	70	105	110	47	15	32

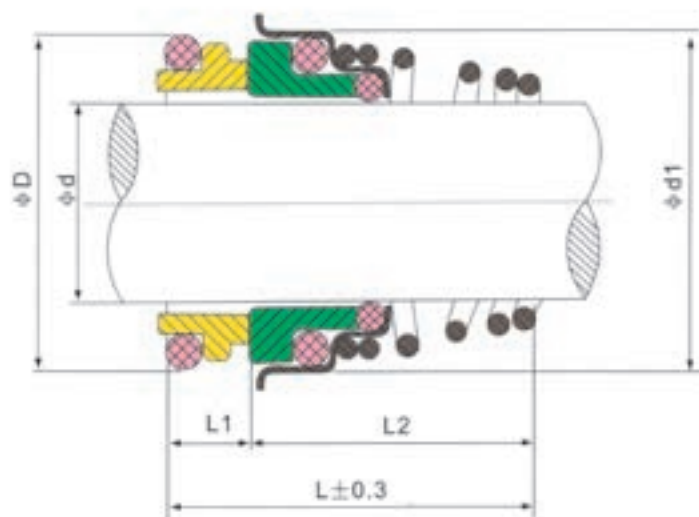
155

Operating Limits

Pressure:1MPa

Speed:15m/s

Temperature:-30℃~200℃



- Stationary Ring (Carbon/SiC/TC)
- Rotary Ring (Ceramic/SiC/TC)
- Secondary Seal (NBR/EPDM/VITON)
- Spring&Other Parts (SUS304/SUS316)

Mod. 155 Fitting Dimension

MODEL	d	d1	D	L	L1	L2
155-10	10	20	18.1	20.5	5.5	15
155-11	11	22	20.6	23.5	5.5	18
155-12	12	22	20.6	23.5	5.5	18
155-13	13	25	23.1	28	6	22
155-14	14	25	23.1	28	6	22
155-15	15	29	26.9	30	7	23
155-16	16	29	26.9	30	7	23
155-17	17	29	26.9	30	7	23
155-18	18	33	30.9	32	8	24
155-19	19	33	30.9	33	8	25
155-20	20	33	30.9	33	8	25
155-21	21	38	35.4	33	8	25

MODEL	d	d1	D	L	L1	L2
155-22	22	38	35.4	33	8	25
155-23	23	38	35.4	35	8	27
155-24	24	38	35.4	35	8	27
155-25	25	40	38.2	35.5	8.5	27
155-28	28	46	43.3	39	9	30
155-29	29	46	43.3	39	9	30
155-30	30	46	43.3	39	9	30
155-32	32	46	43.3	39	9	30
155-33	33	48	53.5	50.5	11.5	39
155-35	35	50	53.5	50.5	11.5	39
155-38	38	58	60.5	50.5	11.5	39
155-40	40	58	60.5	50.5	11.5	39

Operating Limits

Pressure:1.0MPa

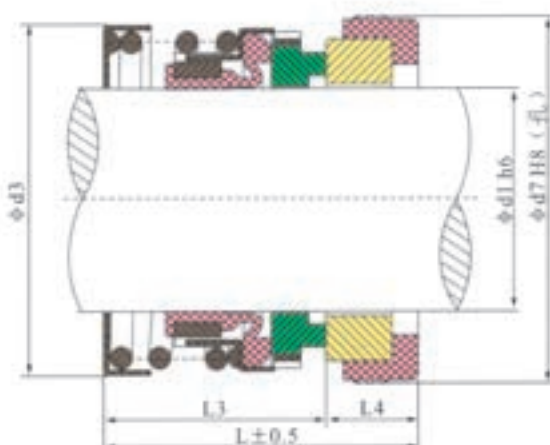
Speed:12m/s

Temperature:-30℃~200℃

Medium:Oil,water and general corrosive liquid



- Stationary Ring (Ceramic/SiC/TC)
- Rotary Ring (Carbon/SiC/TC)
- Secondary Seal (NBR/EPDM/VITON)
- Spring&Other Parts (SUS304/SUS316)



Mod. 560B Fitting Dimension

MODEL	d1	d3	d7	L	L3	L4
560B-3/8"	9.53	21.5	22.2	28.5	22.2	6.3
560B-1/2"	12.70	23.0	25.4	30.2	22.2	8.0
560B-5/8"	15.88	26.5	31.8	32.5	22.2	10.3
560B-3/4"	19.05	30.5	35.0	32.5	22.2	10.3
560B-7/8"	22.23	34.5	38.1	34.3	24.0	10.3
560B-1"	25.40	40.0	41.3	36.4	25.4	11.0
560B-1 1/8"	28.58	44.5	44.5	38.0	27.0	11.0
560B-1 1/4"	31.75	47.0	47.7	38.0	27.0	11.0
560B-1 3/8"	34.93	51.5	50.8	39.5	28.5	11.0
560B-1 1/2"	38.10	55.0	54.0	39.5	28.5	11.0
560B-1 5/8"	41.28	58.0	60.3	47.7	35.0	12.7
560B-1 3/4"	44.45	61.5	63.5	47.7	35.0	12.7
560B-1 7/8"	47.63	65.5	66.7	50.7	38.0	12.7
560B-2"	50.80	70.0	69.9	50.7	38.0	12.7
560B-2 1/8"	53.98	75.0	76.2	57.3	43.0	14.3
560B-2 1/4"	57.15	79.0	79.4	57.3	43.0	14.3
560B-2 3/8"	60.33	82.0	82.6	60.3	46.0	14.3
560B-2 1/2"	63.50	86.0	85.7	60.3	46.0	14.3
560B-2 5/8"	66.68	91.5	85.7	65.0	49.0	16.0
560B-2 3/4"	69.85	93.0	88.9	65.0	49.0	16.0
560B-2 7/8"	73.03	99.0	95.3	68.5	52.0	16.0
560B-3"	76.20	99.0	98.4	68.5	52.5	16.0

Mod. 560A Fitting Dimension

MODEL	d1	d3	d7	L	L3	L4
560A-8	8	17.5	21	18.9	13.9	5
560A-10	10	21.5	24	23.0	16.0	7
560A-11	11	21.5	24	23.0	16.0	7
560A-12	12	23.0	26	24.0	17.0	7
560A-14	14	26.5	28	25.0	18.0	7
560A-15	15	26.5	28	25.0	18.0	7
560A-16	16	26.5	32	27.0	19.0	8
560A-18	18	30.5	35	26.0	18.0	8
560A-19	19	30.5	35	26.0	18.0	8
560A-20	20	32.0	38	28.0	20.0	8
560A-22	22	34.5	40	28.0	20.0	8
560A-25	25	40.0	44	29.0	20.0	9
560A-28	28	44.5	46	30.0	21.0	9
560A-30	30	47.0	50	31.0	22.0	9
560A-32	32	47.0	54	33.0	24.0	9
560A-35	35	51.5	58	36.0	26.0	10
560A-38	38	55.0	60	37.0	27.0	10
560A-40	40	58.0	64	38.0	28.0	10
560A-45	45	61.5	66	40.0	30.0	10
560A-50	50	70.0	72	42.0	32.0	10

Mod. 560C Fitting Dimension

MODEL	d1	d3	d7	L	L1	L2
560C-16	16	26.5	27	36.0	25.7	10.3
560C-18	18	30.5	33	37.5	27.2	10.3
560C-20	20	34.5	35	37.5	27.2	10.3
560C-22	22	34.5	37	38.2	27.2	11.0
560C-24	24	40.0	39	40.0	29.0	11.0
560C-25	25	40.0	40	40.0	29.0	11.0
560C-28	28	44.5	43	42.5	31.5	11.0
560C-30	30	47.0	45	42.5	31.5	11.0
560C-32	32	47.0	48	42.5	31.5	11.0
560C-33	33	50.5	48	42.5	31.5	11.0
560C-35	35	51.5	50	42.5	31.5	11.0
560C-38	38	55.0	56	45.0	34.0	11.0
560C-40	40	58.0	58	45.0	32.3	12.7
560C-43	43	61.5	61	45.0	32.3	12.7
560C-45	45	61.5	63	45.0	32.3	12.7
560C-48	48	65.5	66	45.0	32.3	12.7
560C-50	50	70.0	70	47.5	34.8	12.7
560C-53	53	74.0	73	47.5	33.3	14.3
560C-55	55	76.0	75	47.5	33.3	14.3
560C-58	58	79.0	78	52.0	38.3	14.3
560C-60	60	82.0	80	52.5	38.3	14.3
560C-63	63	86.0	83	52.5	38.3	14.3
560C-65	65	87.0	85	52.0	36.0	16.0
560C-68	68	91.5	90	52.0	36.0	16.0
560C-70	70	93.0	92	60.0	44.0	16.0
560C-73	73	99.0	93	60.0	44.0	16.0
560C-75	75	99.0	97	60.0	44.0	16.0

560D



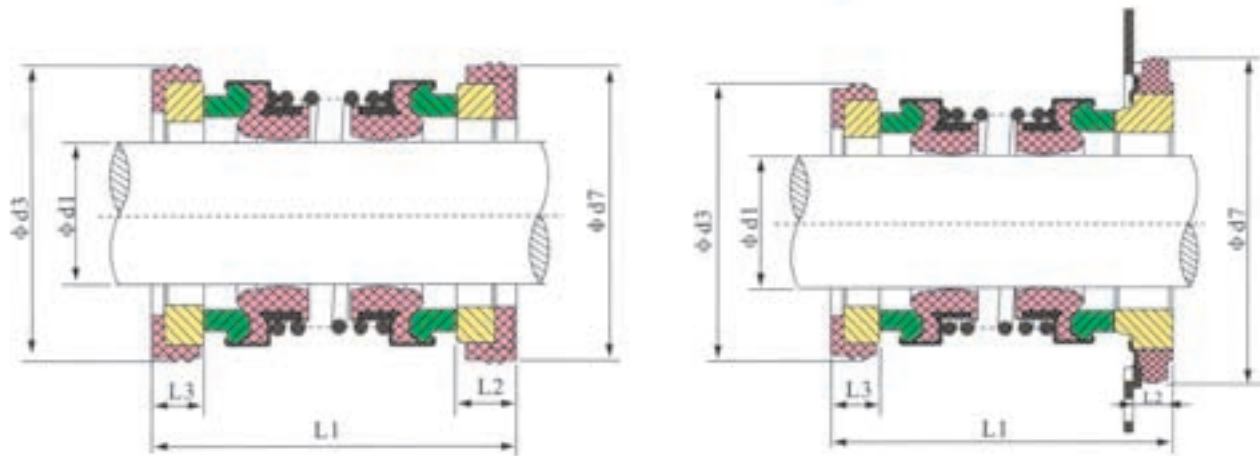
Operating Limits

Pressure: 0.3MPa

Speed: 10m/s

Temperature: -30℃~200℃

- Stationary Ring (Ceramic/SiC/TC)
- Rotary Ring (Carbon/SiC/TC)
- Secondary Seal (NBR/EPDM/VITON)
- Spring & Other Parts (SUS304/SUS316)



Mod. 560D Fitting Dimension

MODEL	d1	d3	d7	L1	L2	L3
560D-13	13	25	25	36	5	5
560D-14	14	30	30	37	5	5
560D-15	15	30	30	37	5	5
560D-16	16	30	30	37	5	5
560D-18	18	35	38	49	7	10
560D-19	19	35	38	49	7	10
560D-20	20	38	44	49	7	7
560D-25	25	44	50	51	7	7
560D-30	30	50	57	59	9	8
560D-35	35	58	64	61	9	9
560D-40	40	64	70	64	11	9
560D-45	45	66	70	65	10	9
560D-50	50	72	80	69	10	9

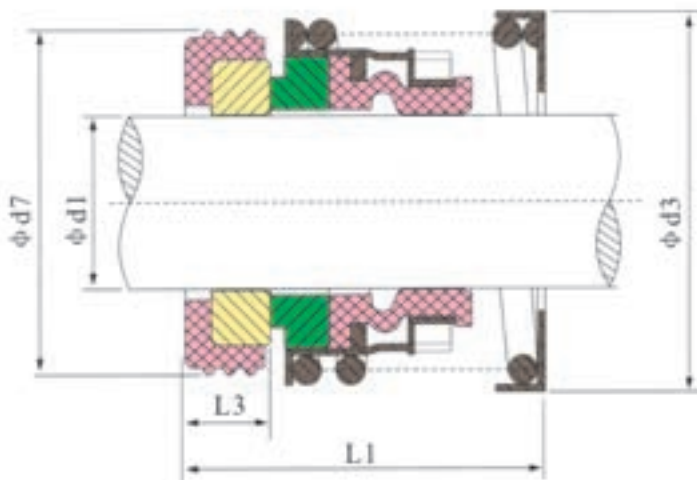
DK-580

Operating Limits

Pressure: 2.8MPa

Speed: 13m/s

Temperature: -30°C~200°C



- Stationary Ring (Ceramic/SiC/TC)
- Rotary Ring (Carbon/SiC/TC)
- Secondary Seal (NBR/EPDM/VITON)
- Spring&Other Parts (SUS304/SUS316)

Mod. 580 Fitting Dimension

MODEL	d1	d3	d7	L1	L3
580-3/8 "	9.525	28.0	24.600	33.7	8.7
580-1/2 "	12.700	32.0	27.800	33.7	8.7
580-5/8 "	15.875	35.0	30.95	35.3	10.3
580-3/4 "	19.050	40.0	34.150	35.3	10.3
580-7/8 "	22.225	43.0	37.300	35.3	10.3
580-1 "	25.400	47.0	40.500	36.9	11.9
580-1 1/8 "	28.575	56.0	47.650	44.9	11.9
580-1 1/4 "	31.750	59.0	50.800	44.9	11.9
580-1 3/8 "	34.925	63.0	54.000	44.9	11.9
580-1 1/2 "	38.100	67.0	57.150	44.9	11.9
580-1 5/8 "	41.275	71.0	60.350	44.9	11.9
580-1 3/4 "	44.450	74.0	63.500	52.9	11.9
580-1 7/8 "	47.625	77.0	66.700	52.9	11.9
580-2 "	50.800	81.0	69.850	54.5	13.5
580-2 1/8 "	53.970	84.0	73.050	54.5	13.5
580-2 1/4 "	57.150	88.0	76.200	54.5	13.5
580-2 3/8 "	60.320	91.0	79.400	54.5	13.5
580-2 1/2 "	63.500	94.0	82.550	54.5	13.5

70



Operating Limits

Pressure:0.6MPa

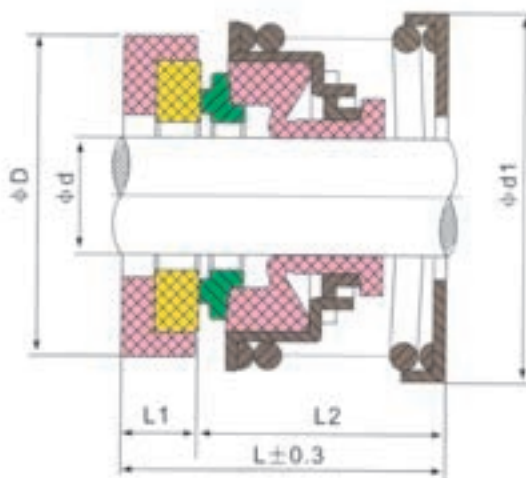
Speed:10m/s

Temperature:-30℃~200℃

Mod. 70 Fitting Dimension

MODEL	d	D	d1	L	L1	L2
70-13	13	29.5	31.5	32	8	24
70-14	14	29.5	31.5	32	8	24
70-15	15	29.5	31.5	26/32	8	18/24
70-16	16	29.5	31.5	26/32	8	18/24

- Stationary Ring (Ceramic/SiC/TC)
- Rotary Ring (Carbon/SiC/TC)
- Secondary Seal (NBR/EPDM/VITON)
- Spring&Other Parts (SUS304/SUS316)



166



Operating Limits

Pressure:1MPa

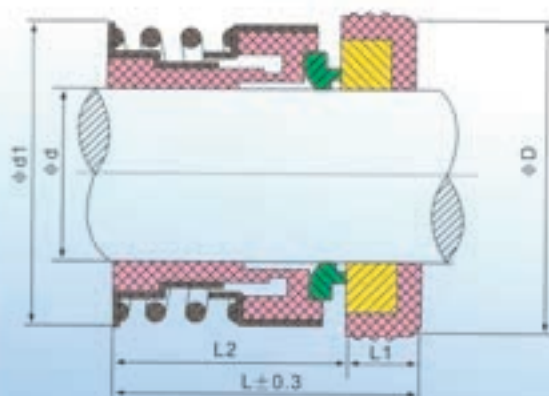
Speed:10m/s

Temperature:-30℃~200℃

Mod. 70 Fitting Dimension

MODEL	d	d1	D	L	L1	L2
166-3/8"	9.525	23.29	22.23	23.8	7.14	16.66
166-1/2"	12.7	23.29	25.4	23.01	6.35	16.66
166-5/8"	15.875	30.1	31.75	28.55	10.31	18.24
166-3/4"	19.05	33.07	34.93	28.55	10.31	18.24
166-7/8"	22.225	36.3	38.1	30.94	10.31	20.63
166-1"	25.4	39.42	41.28	31.72	11.1	20.62

- Stationary Ring (Ceramic/SiC/TC)
- Rotary Ring (Carbon/SiC/TC)
- Secondary Seal (NBR/EPDM/VITON)
- Spring&Other Parts (SUS304/SUS316)

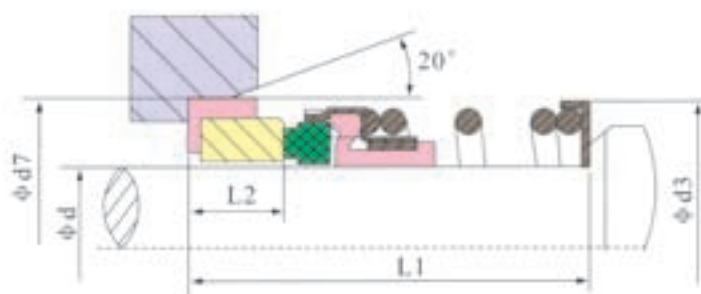


Operating Limits

Pressure:1MPa

Speed:10m/s

Temperature:-30℃-200℃



- Stationary Ring (Ceramic/SiC/TC)
- Rotary Ring (Carbon/SiC/TC)
- Secondary Seal (NBR/EPDM/VITON)
- Spring&Other Parts (SUS304/SUS316)

Mod. BIA Fitting Dimension

MODEL	d	d3	d7	L1	L2
BIA-14	14	27	30	23.7	5
BIA-16	16	28.5	32	26	5
BIA-18	18	30.5	35	30	7.5
BIA-20	20	31.5	35	29	8
BIA-25	25	39	40	33.5	8
BIA-28	28	42	43	33.5	8
BIA-30	30	44	45	34.5	9
BIA-32	32	46	48	42.5	9
BIA-33	33	47	48	42.5	9
BIA-35	35	49	50	42.5	9
BIA-38	38	54	56	42.5	9
BIA-40	40	56	58	42.5	9
BIA-43	43	59	61	46	9.5
BIA-45	45	61	63	47.5	9.5
BIA-48	48	64	66	47.5	9.5
BIA-50	50	66	70	47.5	9.5
BIA-53	53	69	73	50.5	9.5
BIA-55	55	71	75	50.5	9.5
BIA-58	58	78	78	51.5	9.5
BIA-60	60	80	80	51.5	9.5
BIA-70	70	90	92	56	11

208

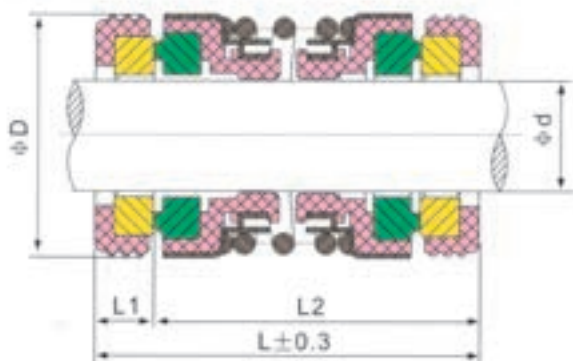
Operating Limits

Pressure:1.2MPa

Speed:10m/s

Temperature:-30℃~200℃

- Stationary Ring (Ceramic/SiC/TC)
- Rotary Ring (Carbon/Ceramic/SiC/TC)
- Secondary Seal (NBR/EPDM/VITON)
- Spring& Retainer (Copper/SUS304/SUS316)

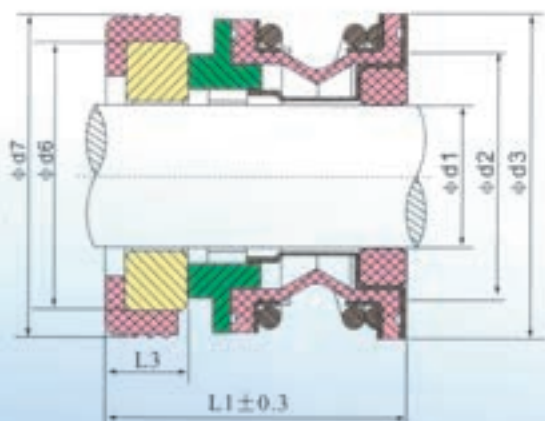


Mod. 208 Fitting Dimension

MODEL	d	D	L	L1	L2
208-10	10	21	30	5.5	24.5
208-12	12	23	30	5.5	24.5
208-14	14	26/28	38	6.5	31.5
208-16	16	28/30	38	6.5	31.5
208-18	18	33/35	38	8.0	30
208-20	20	35/36	40	8.0	32
208-25	25	40/41	48	8.0	40
208-30	30	45	51	8.0	43
208-35	35	50	51	8.0	43
208-40	40	58	58	9.0	49
208-45	45	63	58	9.0	49

E

- Stationary Ring(Ceramic/SiC/TC)
- Rotary Ring (Carbon/SiC/TC)
- Secondary Seal(NBR/EPDM/VITON)
- Spring&Other Parts(SUS304/SUS316)



Operating Limits

Pressure:1MPa

Speed:12m/s

Temperature:-30℃~200℃

Mod. E Fitting Dimension

MODEL	d1	d7	d3	d6	d2	L1	L3
E-5/16"	7.925	25.4	27	16	20.63	24.6	8
E-3/8"	9.52	22.225	23.8	14.30	17.42	22.22	6.2
E-1/2"	12.70	25.4	26.97	17.45	20.63	22.8	6.2
E-5/8"	15.875	30.1	30.94	20.63	23.80	26.5	8.7
E-5/8" H	15.875	31.75	30.94	20.63	23.8	30.00	10.3
E-5/8" K	15.875	31.75	30.94	20.63	23.8	28.5	10.3
E-3/4"	19.05	34.925	34.11	23.8	26.87	30.00	10.3
E-3/4" C	19.05	34.925	34.11	23.8	26.87	28.5	10.3
E-1"	25.4	41.275	42.85	30.15	33.33	31.73	11.1



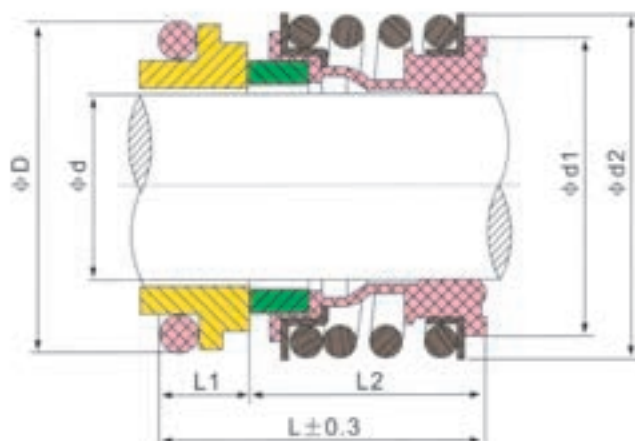
Operating Limits

Pressure: 1.2MPa

Speed: 10m/s

Temperature: -30℃~200℃

- Stationary Ring (Ceramic/SiC/TC)
- Rotary Ring (Carbon/SiC/TC)
- Secondary Seal (NBR/EPDM/VITON)
- Spring & Other Parts (SUS304/SUS316)



Mod. G Fitting Dimension

MODEL	d	d1	d2	D	L	L1	L2
G-10	10	20.5	22.5	19.2	22	7.5	14.5
G-12	12	22.5	25	21.6	21.5	6.5	15
G-14	14	26.5	28.5	24.6	23.5	6.5	17
G-15	15	26.5	28.5	24.6	24.5	7.5	17
G-16	16	26.5	28.5	28	25.5	8.5	17
G-18	18	29	32	30	28.5	9	19.5
G-19	19	33	37	35	21.5	8.5	13
G-20	20	33	37	35	30	8.5	21.5
G-22	22	33	37	35	30	8.5	21.5
G-24	24	38	42.5	38	31	8.5	22.5
G-25	25	38	42.5	38	31.5	8.5	23
G-28	28	44	49	42	36.5	10	26.5
G-30	30	44	49	45	38	11.5	26.5
G-32	32	46	53.5	48	39	11.5	27.5
G-33	33	46	53.5	50	39.5	12	27.5
G-35	35	50	57	52	40.5	12	28.5
G-38	38	53	59	55	41.3	11.3	30
G-40	40	55	62	58	41.8	11.8	30

MODEL	d	d1	d2	D	L	L1	L2
G-42	42	58	65.5	62	43.2	13.2	30
G-43	43	58	65.5	62	43.2	13.2	30
G-45	45	60	68	64	42.8	12.8	30
G-48	48	63	70.5	68.4	43.3	12.8	30.5
G-50	50	65	74	69.3	43.3	12.8	30.5
G-53	53	70	78.5	72.3	46.5	13.5	33
G-55	55	72	81	75.4	49.5	14.5	35
G-58	58	75	85.5	78.4	51.5	14.5	37
G-60	60	79	88.5	80.4	52.5	14.5	38
G-65	65	84	93.5	85.4	54.2	14.2	40
G-68	68	88	96.5	91.5	54.9	14.9	40
G-70	70	90	99.5	92	54.2	14.2	40
G-75	75	95	107	99	55.2	15.2	40
G-80	80	100	112	104	56.2	16.2	40
G-85	85	107	120	109	57	16	41
G-90	90	114	127	114	61	16	45
G-95	95	119	132	120	63	17	46
G-100	100	124	137	123	64	17	47

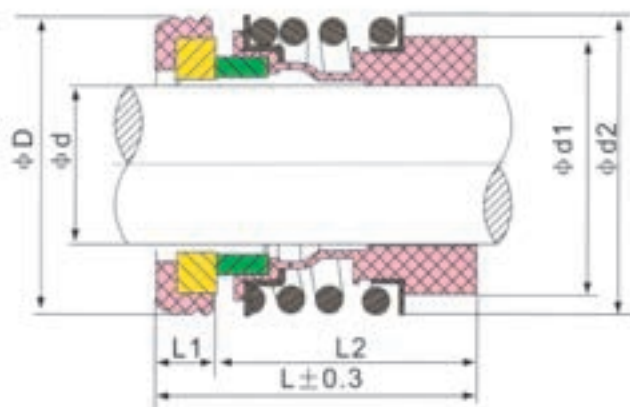
G2

Operating Limits

Pressure:1.2MPa

Speed:10m/s

Temperature:-30℃~200℃



- Bellows(NBR/EPDM/VITON)
- Retainer(SUS304/SUS316)
- Spring(SUS304/SUS316)
- Spring Retainer(SUS304/SUS316)
- Rotary Ring(Carbon/SiC/TC)
- Stationary Ring(Ceramic/SiC/TC)
- Cup Gasket(NBR/EPDM/VITON)

Mod. G2 Fitting Dimension

MODEL	d	d1	d2	D	L	L1	L2	MODEL	d	d1	d2	D	L	L1	L2
G2-10	10.0	20.5	22.5	21.0	32.5	6.6	25.9	G2-43	43.0	58.0	65.5	61.0	45.0	9.0	36
G2-12	12.0	22.5	25.0	23.0	32.5	6.6	25.9	G2-45	45.0	60.0	68.0	63.0	42.8	9.0	36
G2-14	14.0	26.5	28.5	25.0	35.0	6.6	28.4	G2-48	48.0	63.0	70.5	66.0	43.3	9.0	36
G2-16	16.0	26.5	28.5	27.0	35.0	6.6	28.4	G2-50	50.0	65.0	74.0	70.0	43.3	9.5	38
G2-18	18.0	29.0	32.0	33.0	37.5	7.5	30	G2-53	53.0	70.0	78.5	73.0	46.5	11.0	36.5
G2-20	20.0	33.0	37.0	35.0	37.5	7.5	30	G2-55	55.0	72.0	81.0	75.0	49.5	11.0	36.5
G2-22	22.0	33.0	37.0	37.0	37.5	7.5	30	G2-58	58.0	75.0	85.5	78.0	51.5	11.0	41.5
G2-24	24.0	38.0	42.5	39.0	40.0	7.5	32.5	G2-60	60.0	79.0	88.5	80.0	52.5	11.0	41.5
G2-25	25.0	38.0	42.5	40.0	40.0	7.5	32.5	G2-65	65.0	84.0	93.5	85.0	54.2	11.0	41.5
G2-28	28.0	44.0	49.0	43.0	42.5	7.5	35	G2-68	68.0	88.0	96.5	90.0	54.9	11.3	41.2
G2-30	30.0	44.0	49.0	45.0	42.5	7.5	35	G2-70	70.0	90.0	99.5	92.0	54.2	11.3	48.7
G2-32	32.0	46.0	53.5	48.0	42.5	7.5	35	G2-75	75.0	95.0	107.0	97.0	55.2	11.3	48.7
G2-33	33.0	46.0	53.5	48.0	42.5	7.5	35	G2-80	80.0	100.0	112.0	105.0	56.2	12.0	48
G2-35	35.0	50.0	57.0	50.0	42.5	7.5	35	G2-85	85.0	107.0	120.0	110.0	57.0	14.0	46
G2-38	38.0	53.0	59.0	56.0	45.0	9.0	36	G2-90	90.0	114.0	127.0	115.0	61.0	14.0	51
G2-40	40.0	55.0	62.0	58.0	45.0	9.0	36	G2-95	95.0	119.0	132.0	120.0	63.0	14.0	51
								G2-100	100.0	124.0	137.0	125.0	64.0	14.0	51

G13



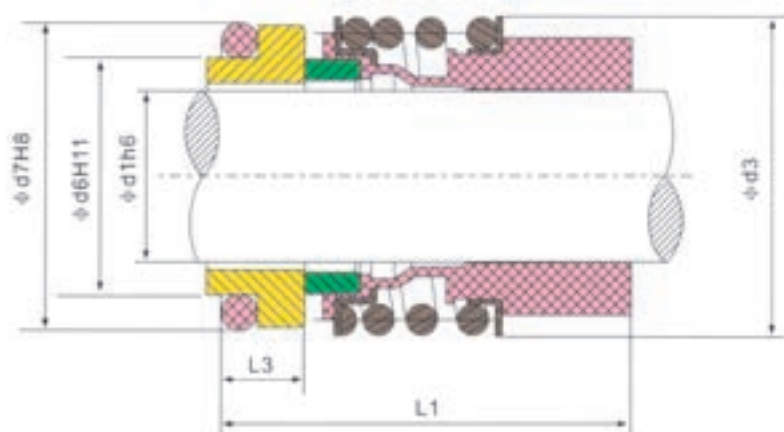
- Bellows (NBR/EPDM/VITON)
- Spring Holder (SUS304/SUS316)
- Spring (SUS304/SUS316)
- Retainer (SUS304/SUS316)
- Rotary Ring (Carbon/SiC/TC)
- Stationary Ring (Ceramic/SiC/TC)
- O ring (NBR/EPDM/VITON)

Operating Limits

Pressure: 1.2MPa

Speed: 10m/s

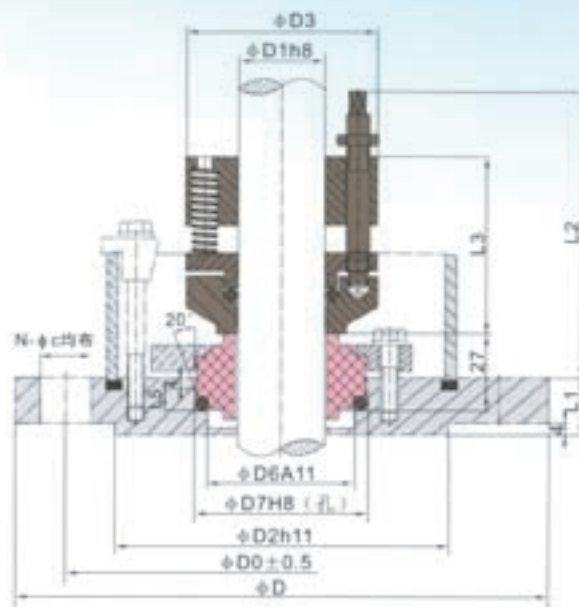
Temperature: -20℃~120℃



Mod. G13 Fitting Dimension

MODEL	d1	d3	d6	d7	L1	L3
G13-24	24	42.5	33	39	50	7.5
G13-25	25	42.5	34	40	50	7.5
G13-28	28	49	37	43	50	7.5
G13-30	30	49	39	45	50	7.5
G13-32	32	53.5	42	48	55	7.5
G13-35	35	57	44	50	55	7.5
G13-38	38	59	49	56	55	9
G13-40	40	62	51	58	55	9

202



Design Features

Conform to the standard of HG5-752-78

Operating Limits

Pressure: -0.1 ~ 0.25MPa

Speed: < 2m/s

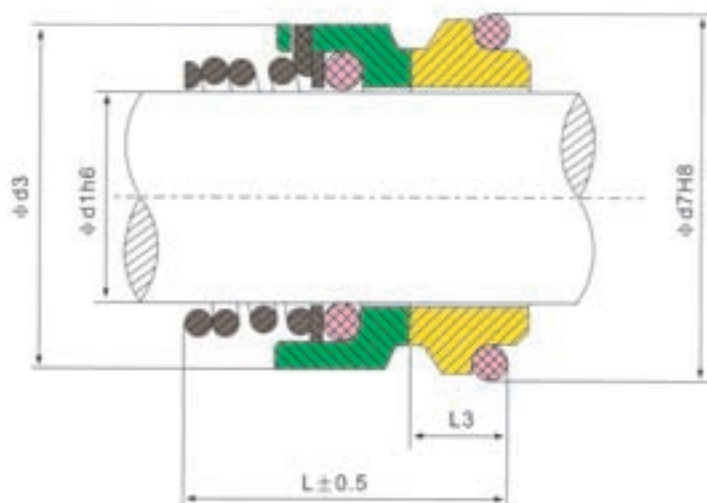
Temperature: -20℃~200℃

Medium: Average corrosive industry liquid, industry solution etc

Mod. 202 Fitting Dimension

MODEL	D1	D	D0	D2	D3	D6	D7	L1	L2	L3	L5	N-φC
202-30	30	185	150	116	66	51	60	20	100	62	11.5	4-φ18
202-40	40	225	170	135	76	61	70	20	100	62	11.5	4-φ18
202-50	50	235	200	164	88	71	80	22	100	62	11.5	8-φ18
202-65	65	235	200	164	103	86	97	22	100	62	12.0	8-φ18
202-80	80	260	225	188	118	102	112	22	100	62	12.0	12-φ18
202-95	95	290	255	220	135	117	127	24	101	63	12.0	12-φ18
202-110	110	315	280	245	150	132	142	24	101	63	12.0	12-φ18

A-2



Operating Limits

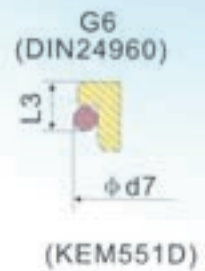
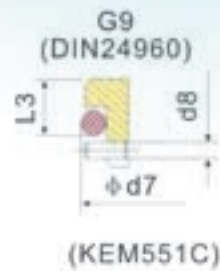
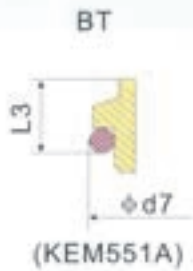
Pressure: 1MPa

Speed: 10m/s

Temperature: -30℃~200℃

- Spring (SUS304/SUS316)
- Retainer (SUS304/SUS316)
- O-ring (NBR/EPDM/VITON/PTFE)
- Rotary Ring (SUS304/SIC/TC)
- Stationary Ring (Carbon/SIC/TC)
- O-Ring (NBR/EPDM/VITON/PTFE)

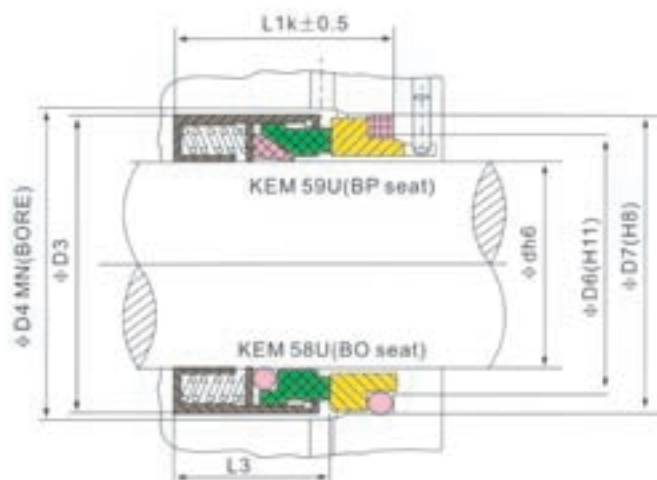
Stationary ring



Mod. 551 Fitting Dimension

				BT			G4			G9				G6		
MODEL	d1	d3	d7	L1	L3	d7	L1	L3	d7	d8	L1	L3	d8	L1	L3	
551-8	8.0	18.0	17.1	20.5	5.5	19.2	18.9	7.0								
551-10	10.0	19.0	18.1	20.5	5.5	19.2	22.1	6.6	21	3	25.5	10	21	22.1	6.6	
551-11	11.0	20.0	20.6	23.5	5.5											
551-12	12.0	21.0	20.6	23.5	5.5	21.6	21.1	5.6	23	3	26	10	23	22.6	6.6	
551-13	13.0	22.0	23.1	28.0	6.0											
551-14	14.0	23.0	23.1	28.0	6.0	24.6	21.1	5.6	25	3	26.5	10	25	23.1	6.6	
551-15	15.0	24.0	26.9	29.0	7.0	24.6	24.1	6.6								
551-16	16.0	26.0	26.9	30.0	7.0	28.0	25.0	7.5	27	3	28	10	27	24.6	6.6	
551-17	17.0	26.0	26.9	30.0	7.0											
551-18	18.0	29.0	30.9	32.0	8.0	30.0	26.5	8.0	33	3	31	11.5	33	27	7.5	
551-19	19.0	31.0	30.9	33.0	8.0	35.0	27.5	7.5								
551-20	20.0	31.0	30.9	33.0	8.0	35.0	27.5	7.5	35	3	33.5	11.5	35	29.5	7.5	
551-22	22.0	33.0	35.4	33.0	8.0	35.0	29.0	7.5	37	3	33	11.5	37	29	7.5	
551-23	23.0	36.0	35.4	35.0	8.0											
551-24	24.0	35.0	35.4	35.0	8.0	38.0	30.5	7.5	39	3	35	11.5	39	31	7.5	
551-25	25.0	36.0	38.2	35.5	8.5	38.0	32.0	7.5	40	3	38	11.5	40	34	7.5	
551-26	26.0	39.0	38.2	35.5	8.5	40.0	32.5	8.0								
551-28	28.0	40.0	43.3	38.0	9.0	42.0	33.5	9.0	43	3	38	11.5	43	34	7.5	
551-30	30.0	43.0	43.3	39.0	9.0	45.0	35	10.5	45	3	38	11.5	45	34	7.5	
551-32	32.0	46.0	43.3	39.0	9.0	48.0	38.5	10.5	48	3	40	11.5	48	36	7.5	
551-33	33.0	47.0	53.5	50.5	11.5											
551-34	34.0	48.0	53.5	50.5	11.5											
551-35	35.0	49.0	53.5	50.5	11.5	52.0	39.0	11.0	50	3	40	11.5	50	36	7.5	
551-36	36.0	50.0	53.5	50.5	11.5											
551-38	38.0	53.0	60.5	50.5	11.5	55.0	41.3	10.3	56	4	47.5	14	56	42.5	9	
551-40	40.0	56.0	60.5	50.5	11.5	58.0	44.8	10.8	58	4	50	14	58	45	9	
551-42	42.0	59.0	60.5	50.5	11.5	62.0	47.0	12.0								
551-43	43.0	59.0	60.5	52.5	11.5	62.0	47.0	12.0	61	4	52.5	14	61	47.5	9	
551-44	44.0	60.0	65.5	52.5	11.5											
551-45	45.0	61.0	65.5	52.5	11.5	64.0	48.1	11.6	63	4	53.5	14	63	48.5	9	
551-48	48.0	64.0	65.5	52.5	11.5	68.4	53.6	11.6	66	4	60	14	66	55	9	
551-50	50.0	66.0	72.5	56.5	11.5	69.3	54.6	11.6	70	4	60	15	70	54.5	9.5	
551-53	53.0	69.0							73	4	62	15	73	58	11	
551-55	55.0	71.0	72.5	58.5	11.5	75.4	60.3	13.3	75	4	64	15	75	60	11	
551-58	58.0	76.0				78.4	63.3	13.3	78	4	70	15	78	66	11	
551-60	60.0	78.0	79.3	60.5	11.5	80.4	64.3	13.3	80	4	70	15	80	66	11	
551-63	63.0	83.0							83	4	70	15	83	66	11	
551-65	65.0	84.0	84.5	62.5	11.5	85.4	65.0	13.0	85	4	70	15	85	66	11	
551-68	68.0	88.0				91.5	66.7	13.7	90	4	73	18	90	66.3	11.3	
551-70	70.0	90.0	89.5	62.5	11.5	92.0	67.0	13.0	92	4	75	18	92	68.3	11.3	
551-75	75.0	98.0	94.5	68.5	11.5	99.0	69.0	14.0	97	4	80	18	97	73.3	11.3	
551-80	80.0	100.0	99.5	70.5	11.5	104	73	15.0	105	4	80	18.2	105	73.8	12	

58U 59U



Mod. 58U 59U Fitting Dimension

d	d3	d4	L1k	L3	d6	d7
14	24	26	35.0	23.0	21	25
16	26	28	35.0	23.0	23	27
18	32	34	37.5	24.0	27	33
20	34	36	37.5	24.0	29	35
22	36	38	37.5	24.0	31	37
24	38	40	40.0	26.7	33	39
25	39	41	40.0	27.0	34	40
28	42	44	42.5	30.0	37	43
30	44	46	42.5	30.5	39	45
32	46	48	42.5	30.5	42	48
33	47	49	42.5	30.5	42	48
35	49	51	42.5	30.5	44	50
38	54	58	45.0	32.0	49	56
40	56	60	45.0	32.0	51	58
43	59	63	45.0	32.0	54	61
45	61	65	45.0	32.0	56	63
48	64	68	45.0	32.0	59	66
50	66	70	47.5	34.0	62	70
53	69	73	47.5	34.0	65	73
55	71	75	47.5	34.0	67	75
58	78	83	52.5	39.0	70	78
60	80	85	52.5	39.0	72	80
63	83	88	52.5	39.0	75	83
65	85	90	52.5	39.0	77	85
68	88	93	52.5	39.0	81	90
70	90	95	60.0	45.5	83	92
75	95	104	60.0	45.5	88	97
80	104	109	60.0	45.0	95	105
85	109	114	60.0	45.0	100	110
90	114	119	65.0	50.0	105	115
95	119	124	65.0	50.0	110	120
100	124	129	65.0	50.0	115	125

Operating Limits

Pressure: 0~1.2MPa

Speed: ≤20m/s

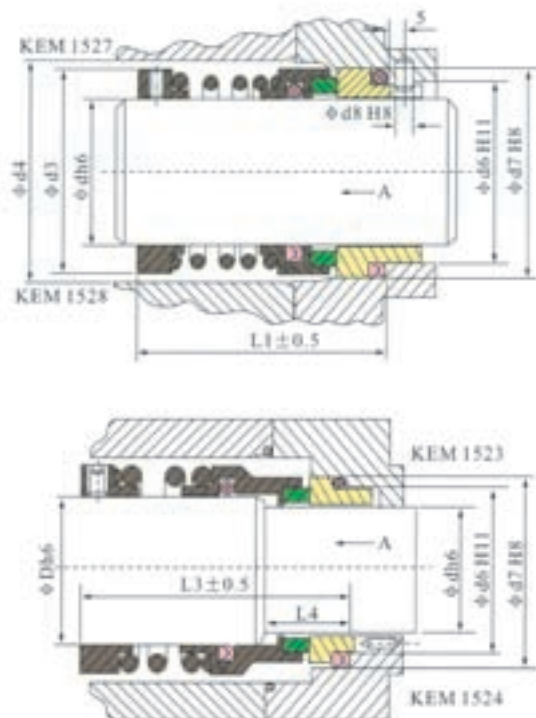
Temperature: -20℃~220℃

Design Feature:

Conform to ISO3069, DIN24960 and BS5257-1975 standards

- Stationary Ring(SiC/TC/Ceramic)
- Rotary Ring (Carbon/SiC/TC)
- Secondary Seal(NBR/EPDM/VITON)
- Spring&Other Parts(SUS304/SUS316)

1500



Mod. 1500 Fitting Dimension

d	D	d3	d4(min)	d7	d6	d8	L3	L1	L4
18	22	32	34	33	27	3	55	45	20
20	24	34	36	35	29	3	60	45	20
22	26	36	38	37	31	3	60	45	20
24	28	38	40	39	33	3	60	50	20
25	30	39	41	40	34	3	60	50	20
28	33	42	44	43	37	3	65	50	20
30	35	44	46	45	39	3	65	50	20
32	38	46	48	48	42	3	65	55	20
33	38	47	49	48	42	3	65	55	20
35	40	49	51	50	44	3	65	55	20
38	43	54	58	56	49	4	75	55	23
40	45	56	60	58	51	4	75	55	23
43	48	59	63	61	54	4	75	60	23
45	50	61	65	63	56	4	75	60	23
48	53	64	68	66	59	4	85	60	23
50	55	66	70	70	62	4	85	60	25
53	58	69	73	73	65	4	85	70	25
55	60	71	75	75	67	4	85	70	25
58	63	78	83	78	70	4	85	70	25
60	65	80	85	80	72	4	95	70	25
63	68	83	88	83	75	4	95	70	25
65	70	85	90	85	77	4	95	80	25
68	73	88	93	90	81	4	95	80	28
70	75	90	95	92	83	4	95	80	28
75	80	99	104	97	88	4	105	80	28
80	85	104	109	105	95	4	105	90	28
85	90	109	114	110	100	4	105	90	28
90	95	114	119	115	105	4	105	90	28
95	100	119	124	120	110	4	105	90	28
100	105	124	129	125	115	4	105	90	28



Operating Limits

Pressure: KEM1527, KEM1528 0~1MPa

KEM1523, KEM1524 <3MPa

Speed: <15m/s

Temperature: -20℃~220℃

Design Feature:

- Rotary direction is immobile. The springs can be assorted into right-hand or left-hand. The spring rotating direction is determined by the direction of the shaft rotation.
- Except the axial length, all other sizes conform to the ISO3069, DIN24960 standards.

- Stationary Ring(Carbon/SiC/TC)
- Rotary Ring (SiC/TC/SUS304/SUS316)
- Secondary Seal(NBR/VITON/PTFE)
- Spring&Other Parts(SUS304/SUS316)

7N/74



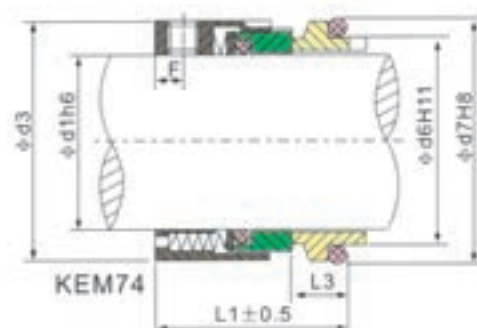
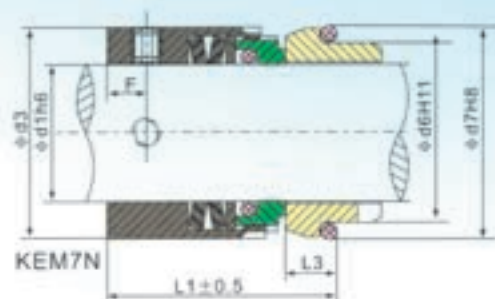
Operating Limits

Pressure: 1.6MPa

Speed: 20m/s

Temperature: -30℃~200℃

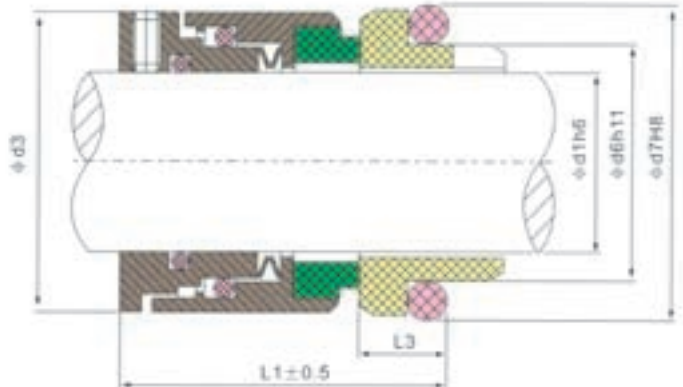
- Stationary Ring(Carbon/SiC/TC)
- Rotary Ring (SiC/TC/SUS304/SUS316)
- Secondary Seal(NBR/VITON/PTFE)
- Spring&Other Parts(SUS304/SUS316)



Mod. 7N/74 Fitting Dimension

d1	d3	d6	d7	L1	L3	F
14	25.0	21	25.0	35.0	10.0	6.0
16	27.0	23	27.0	35.0	10.0	6.0
18	33.0	27	33.0	37.5	11.5	7.0
20	35.0	29	35.0	37.5	11.5	7.0
22	37.0	31	37.0	37.5	11.5	7.0
24	39.0	33	39.0	40.0	11.5	8.0
25	40.0	34	40.0	40.0	11.5	8.0
28	43.0	37	43.0	42.5	11.5	8.0
30	45.0	39	45.0	42.5	11.5	8.0
32	47.0	42	48.0	42.5	11.5	8.0
33	48.0	42	48.0	42.5	11.5	8.0
35	50.0	44	50.0	42.5	11.5	8.0
38	55.0	49	56.0	45.0	14.0	8.0
40	57.0	51	58.0	45.0	14.0	8.0
43	60.0	54	61.0	45.0	14.0	8.0
45	62.0	56	63.0	45.0	14.0	8.0
48	65.0	59	66.0	45.0	14.0	8.0
50	67.0	62	70.0	47.5	15.0	8.0
53	70.0	65	73.0	47.5	15.0	8.0
55	72.0	67	75.0	47.5	15.0	8.0
58	79.0	70	78.0	52.5	15.0	9.0
60	81.0	72	80.0	52.5	15.0	9.0
63	84.0	75	83.0	52.5	15.0	9.0
65	86.0	77	85.0	52.5	15.0	9.0
68	89.0	81	90.0	52.5	18.0	9.0
70	91.0	83	92.0	60.0	18.0	9.0
75	99.0	88	97.0	60.0	18.0	10.0
80	104.0	95	105.0	60.0	18.2	10.0
85	109.0	100	110.0	60.0	18.2	10.0
90	114.0	105	115.0	65.0	18.2	10.0
95	119.0	110	120.0	65.0	17.2	10.0
100	124.0	115	125.0	65.0	17.2	10.0

H



Operating Limits

Pressure: <2.5MPa

Speed: <20m/s

Temperature: -20°C~180°C

Medium: liquid rich in solid impurity or high viscosity such as polluted water by paper industrial

Design Feature:

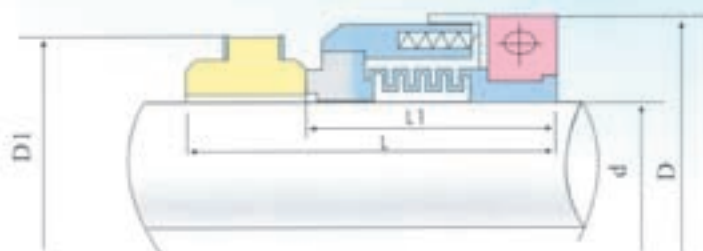
a. Single face, balanced

b. Conform to the DIN24960, ISO3069 and GB 6556 standards.

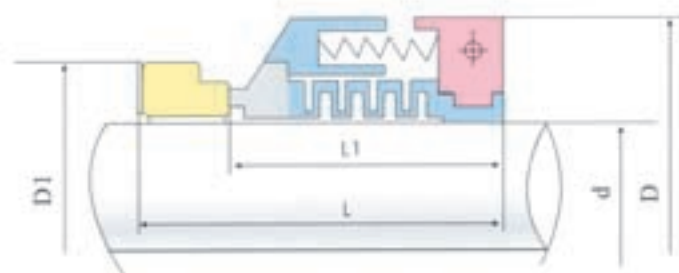
Mod. H Fitting Dimension

MODEL	d	d3	d6	d7	L3	L1
H-18	18	32	27	33	7	37.5
H-20	20	34	29	35	7	37.5
H-22	22	36	31	37	7	37.5
H-24	24	38	33	39	7	40.0
H-25	25	39	34	40	7	40.0
H-28	28	42	37	43	7	42.5
H-30	30	44	39	45	7	42.5
H-32	32	47	42	48	7	42.5
H-33	33	47	42	48	7	42.5
H-35	35	49	44	50	7	42.5
H-38	38	54	49	56	8	45.0
H-40	40	56	51	58	8	45.0
H-43	43	59	54	61	8	45.0
H-45	45	61	56	63	8	45.0
H-48	48	64	59	66	8	45.0
H-50	50	66	62	70	9.5	47.5
H-53	53	69	65	73	9.5	47.5
H-55	55	71	67	75	9.5	47.5
H-58	58	78	70	78	10.5	52.5
H-60	60	80	72	80	10.5	52.5
H-63	63	83	75	83	10.5	52.5
H-65	65	85	77	85	10.5	52.5
H-68	68	88	81	90	11	52.5
H-70	70	90	83	92	11.5	60.0
H-75	75	99	88	97	11.5	60.0
H-80	80	104	95	105	11.5	60.0
H-85	85	109	100	110	11.5	60.0
H-90	90	114	105	115	13	65.0
H-95	95	119	110	120	13	65.0
H-100	100	124	115	125	13	65.0

152 WB2



KEMWB2



KEM152

Operating Limits

Pressure: < 0.5MPa

speed: < 15m/s

temperature: < 120 C

Medium: high corrosion mediums of different concentrations, such as sulfuric acid, hydrochloric acid, phosphoric acid, acetic acid, nitric acid, etc.

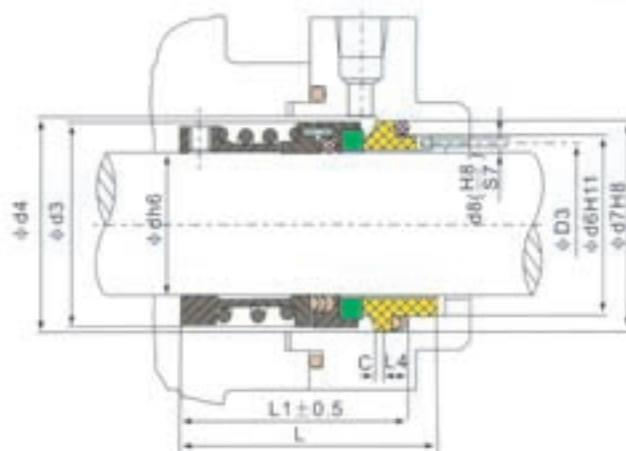
Mod. 152 Fitting Dimension

MODEL	d	D	D1	L	L1
152-25	25	65	48	53	41
152-30	30	67	53	53	41
152-35	35	73	58	54	42
152-40	40	78	63	54	42
152-45	45	89	68	62.5	48
152-50	50	94	73	62.5	48
152-55	55	96	78	62.5	48
152-60	60	101	87	66.5	52.5
152-65	65	106	92	66.5	52.5

Mod. WB2 Fitting Dimension

MODEL	d	D	D1	L	L1
WB2-30	30	67	65	68	41
WB2-35	35	73	70	68	42
WB2-40	40	78	76	68	42
WB2-45	45	86	80	75	48
WB2-50	50	91	85	75	48
WB2-55	55	96	90	75	48
WB2-60	60	101	95	66.5	52.5
WB2-65	65	106	100	66.5	52.5

4U



Operating Limits

Pressure: 0~1.0MPa

Speed: <20m/s

Temperature: -20℃~220℃

Medium: water, oil, crystallizing acid, alkali, high viscosity liquid, paper pulp, etc.

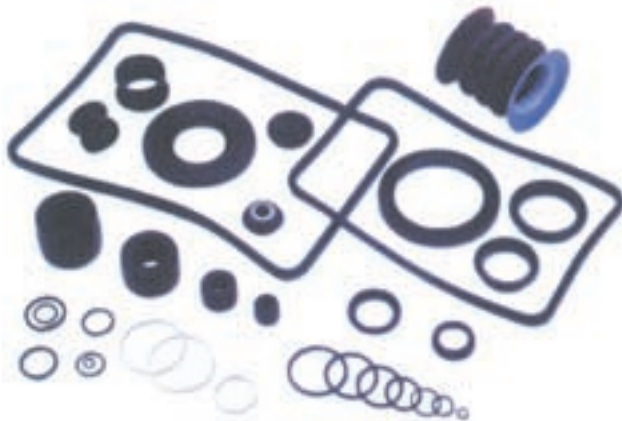
Design Feature:

Except the install length, all other dimension are conform to ISO3069, DIN24960 and GB6556 standards.

Mod. 4U Fitting Dimension

MODEL	d	d3	d4(min)	d7	d6	d3	d8	L	L1	L4	C
4U-18	18	32	34	33	27	23	3	52	45	5	2
4U-20	20	34	36	35	29	25	3	52	45	5	2
4U-22	22	36	38	37	31	27	3	53	46	5	2
4U-24	24	38	40	39	33	29	3	56	49	5	2
4U-25	25	39	41	40	34	30	3	56	49	5	2
4U-28	28	42	44	43	37	33	3	56.5	49.5	5	2
4U-30	30	44	46	45	39	35	3	57	50	5	2
4U-32	32	46	48	48	42	38	3	58.5	51.5	5	2
4U-33	33	47	49	48	42	38	3	58.8	51.5	5	2
4U-35	35	49	51	50	44	40	3	58.8	51.5	5	2
4U-38	38	54	58	56	49	44	4	62	55	6	2
4U-40	40	56	60	58	51	46	4	62	55	6	2
4U-43	43	59	63	61	54	49	4	65	58	6	2
4U-45	45	61	65	63	56	51	4	65	58	6	2
4U-48	48	64	68	66	59	54	4	66	59	6	2
4U-50	50	66	70	70	62	57	4	67	60	6	2.5
4U-53	53	69	73	73	65	60	4	71.5	64.5	6	2.5
4U-55	55	71	75	75	67	62	4	73.5	66.5	6	2.5
4U-58	58	78	83	78	70	65	4	76.5	69.5	6	2.5
4U-60	60	80	85	80	72	67	4	76.5	69.5	6	2.5
4U-63	63	83	88	83	75	70	4	78.8	71.5	6	2.5
4U-65	65	85	90	85	77	72	4	81.5	74.5	6	2.5
4U-68	68	88	93	90	81	75	4	82.5	75.5	7	2.5
4U-70	70	90	95	92	83	77	4	86.5	79.5	7	2.5
4U-75	75	99	104	97	88	82	4	87	80	7	2.5
4U-80	80	104	109	105	95	88	4	90.5	83.5	7	3
4U-85	85	109	114	110	100	93	4	90.5	83.5	7	3
4U-90	90	114	119	115	105	98	4	92.5	85.5	7	3
4U-95	95	119	124	120	110	103	4	93.5	86.5	7	3
4U-100	100	124	129	125	115	108	4	93.5	86.55	7	3

RUBBER PRODUCTS



Rubber classification&Features

RUBBER BRAND	Main Feature&Suitable Scope
(NBR)	Resistant against:oil,presure,abrasion, High elasticity and mechanical strength, Suitable for general hydraulic and pneumatic seal;Unsuitable for working under sunlight and ultraviolet. Application temperature:-20~120℃
(EPDM)	Resistant against:chemical reagents Suitable for hydraulic fluid of organic phosphate Application temperature:-50~150℃
(VITON)	Resistant against:heat,oil,reagents. Suitable for high temperature hydraulic equipment and vacuum equipment. Application temperature:-30~250℃

SILICON CARBIDE



Main Performance Index of Silicon Carbide(SiC)

Purity(SiC percentage)%
 Density(g/cm³)
 Hardness(HS)
 Elastic modulus(MPa)
 Poisson ratio
 Tensile strength(MPa)
 Bending strength(MPa)
 Compression strength(MPa)
 Thermal conductivity(cal/cm.s.℃)
 Coefficient of thermal expansion(1/℃)
 Heat resistance(in the atmosphere)
 Thermal impact coefficient(cal/cm.sec)
 Acid resistance(5 times higher than the usual WC)

Main Technology Date of TungstenCarbide(TC)

ITEM	WC-Co	WC-Co	WC-Co	WC-C1
Brand No	YG6	YG8	YG15	YWN8
(g/cm ³)Density	14.6~15.0	14.5~14.9	13.9~14.2	14.4~14.8
HRA	89.5	89	87	88
N/mm ² Bending strength	1421	1470	2058	1470
Linear Expansivity 10-6k(20℃~500℃)	5	5.1	6.3	5.3
Medium	RESISTANT AGAINST:OIL,SEWAGE WATER,WEAK ACID/ALKALL,ETC.			Strong erasive medium

CERAMIC

Main Performance Index of Ceramic

CLASSIFICATION	AL ₂ O ₃ -95	AL ₂ O ₃ -99
COMPOSITION	AL ₂ O ₃ ≥90%	AL ₂ O ₃ ≥98%
COLOUR	(WHITE) (BEIGE) (RED) (BLACK)	(WHITE) (BEIGE) (BLACK)
DENSITY(g/cm ³)	≥3.6	≥3.8
POROSITY	≤0.5	≤0.4
(HRA)ROCKWELL HARDNESS	≥82	≥87
(KGF/CM ²)BREAKING STRENGTH	≥2400	≥2600
STABILITY OF THERMAL VIBRATION	≥5	≥5
OPTICAL FLATNESS	≤0.0009	≤0.0006
ROUGHNESS	≤Ra0.4	≤Ra0.2
LIGHT BAND	≤3	≤1



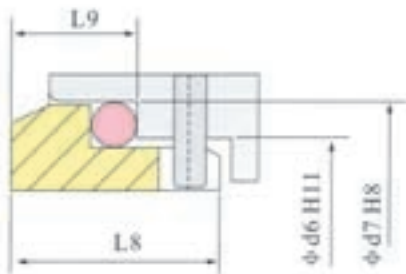
CARBON



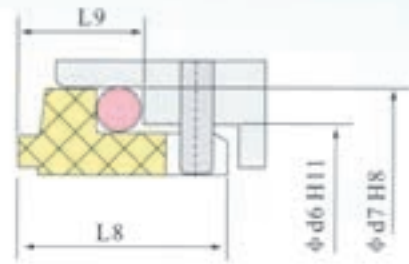
Model & Skillfunction of graphite

CLASSIFICATION	MODEL	DENSITY (G/CM ³)	BENDING STRENGTH(MPa)	COMPRESSION STRENGTH(MPa)	SHORE HARDNESS	POROSITY(%)	FEATURE
Impregnated Carbon	Hot-pressing g	1.72	54	147	55	1.5	Low cost,high lubricative
	M202F	1.82	45	100	48	2.5	resistant against acid, working temperature -100℃～170℃
	M205F	1.8	55	140	70	2.5	
	M203F	1.75	65	180	75	2.5	
	M208F	1.85	50	150	70	2.5	
	M206F	1.65	60	210	85	1	resistant against alkai, working temperature -100℃～200℃
	M102F	1.7	55	200	85	1	
	M208F	1.75	50	120	75	2	
	M252F	1.75	42	88	48	2	
	M208K	1.85	40	140	60	3	resistant against acid,alkali working temperature -100℃～200℃
Furane resin	M208K	1.9	50	130	60	3	
	M120K	1.7	60	220	95	3	
	M250K	1.8	35	90	50	3	
Impregnated PTFE		1.9	50	170	100	5	resistant against acid,alkali working temperature -100℃～200℃

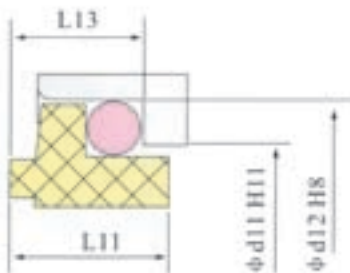
Stationary seats



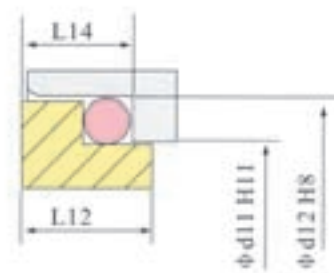
G9/DIN24960



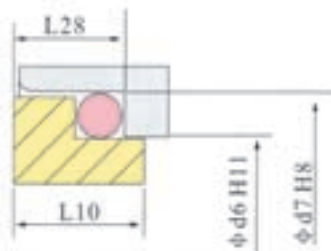
G9/DIN24960(Carbon)



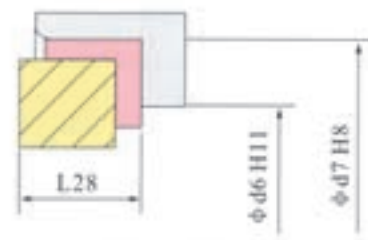
G13/DIN24250



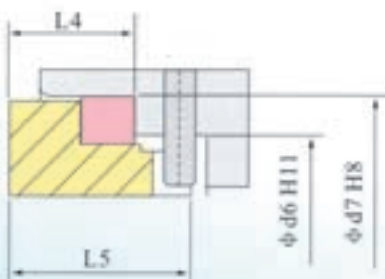
G4/DIN24250



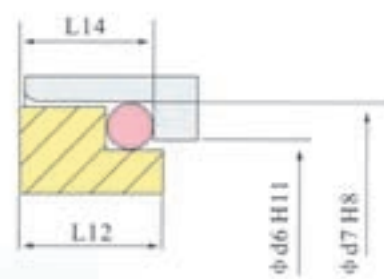
G6/DIN24960



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

Shaft	(mm)														
	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	25.2	17.2	15		17		15.8	14
100	115	125	114.5	123.3	15.7	15	22	25.2	17.2	15		17		15.8	14

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