

SAI™, CST™, NCE™

and stationary seat seal ranges



the AESSEAL® group of companies

designers and manufacturers of mechanical seals,
bearing protectors and seal support systems
which maximize rotating equipment up-time.

SAI™ – Internal Balanced Mechanical Seal



The standard rotary unit in the AESSEAL® modular seal range.

The seal is offered with the following features:

- Non-shaft-fretting design to reduce cost of equipment overhaul
- Maximizes seal life in suspensions and liquids such as slurries given the smooth non-clogging profile (springs out of the product)
- Hydraulically balanced seal-face
- Premium drive integrity (milled metallic lug drive)
- Short internal working length
- Metric DIN SAI™ sizes conform to DIN EN12756:2001 and BS EN 12756:2001 (formerly DIN 24960) in conjunction with the AESSEAL® DIN stationary
- Excellent general service seal
- Fits 0.312" (8mm) cross section in smaller pump models

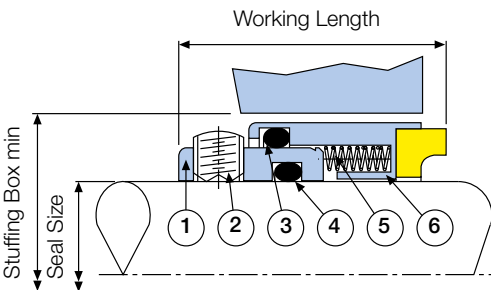
SAI™ Size Chart (mm)

Seal Size	Working Length	S/Box Min
105.0	36.5	123.9
110.0	36.5	130.2
115.0	36.5	136.5
120.0	36.5	142.9
125.0	36.5	149.2
130.0	36.5	149.2
135.0	55.6	168.3
140.0	55.6	168.3
145.0	55.6	168.3
150.0	55.6	181.0
155.0	55.6	181.0

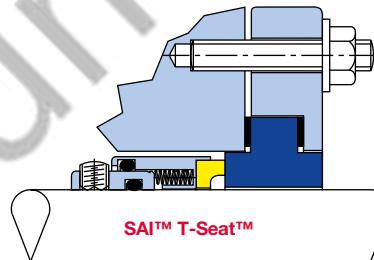
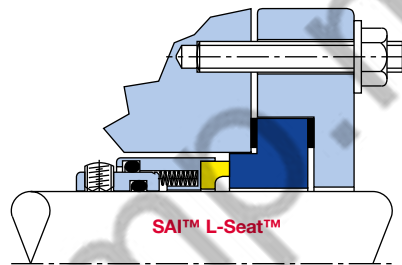
SAI™ Size Chart (inches)

Seal Size	Working Length	S/Box Min
0.750	1.335	1.375
0.875	1.335	1.500
1.000	1.335	1.625
1.125	1.335	1.750
1.250	1.335	1.875
1.375	1.335	2.000
1.500	1.335	2.125
1.625	1.335	2.250
1.750	1.335	2.375
1.875	1.335	2.500
2.000	1.335	2.625
2.125	1.335	2.750
2.250	1.335	2.875
2.375	1.335	3.000
2.500	1.335	3.125
2.625	1.437	3.375
2.750	1.437	3.500
2.875	1.437	3.625
3.000	1.437	3.750
3.125	1.437	3.875
3.250	1.437	4.000
3.375	1.437	4.125
3.500	1.437	4.250
3.625	1.437	4.375
3.750	1.437	4.500
3.875	1.437	4.625
4.000	1.437	4.750
4.125	1.437	4.875
4.250	1.437	5.125
4.375	1.437	5.125
4.500	1.437	5.375
4.625	1.437	5.375
4.750	1.437	5.625
4.875	1.437	5.625
5.000	1.437	5.875
5.125	1.437	5.875
5.250	2.187	6.625
5.375	2.187	6.625
5.500	2.187	6.625
5.625	2.187	6.625
5.750	2.187	6.625
5.875	2.187	7.125
6.000	2.187	7.125

For metric SAI™ seals from 18mm-100mm see DIN SAI™ size chart (below)

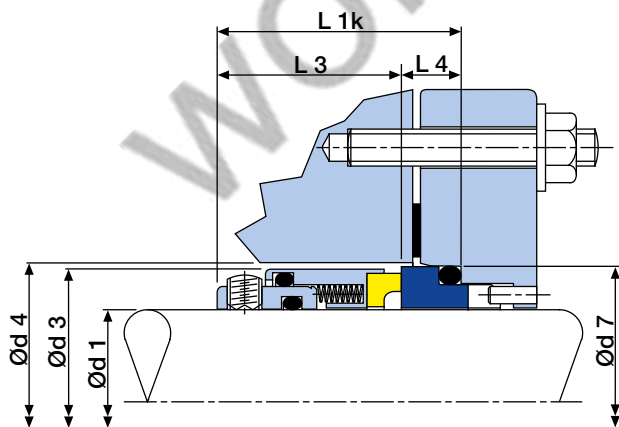


Item	Description	Material
1	SAI Inner Barrel	316L Stainless Steel
2	Drive Screws	Stainless Steel
3	Dynamic O Ring	Viton® / EPR / FEP / Kalrez® / Atlas®
4	Static O Ring	Viton® / EPR / FEP / Kalrez® / Atlas®
5	Springs	Alloy 276
6	SAI Outer Barrel	316L SS - Carbon / TC / Silicon Carbide



DIN SAI™ & DIN Stationary

Designed and manufactured to DIN EN12756:2001 and BS EN 12756:2001 (formerly DIN 24960)



Item	Description	Material
1	DIN SAI Inner Barrel	316L Stainless Steel
2	Drive Screws	Stainless Steel
3	Dynamic O Ring	FKM / EPR / FEP / FFKM / TFE/P
4	Static O Ring	FKM / EPR / FEP / FFKM / TFE/P
5	Springs	Alloy 276
6	DIN SAI Outer Barrel	316L SS - Carbon / Tungsten Carbide / Silicon Carbide
7	DIN Stationary	Ceramic* / Silicon Carbide
8	Stationary O Ring	FKM / EPR / FEP / FFKM / TFE/P

*This material is not available from 3.125" (80mm) and above.

DIN SAI™ Size Chart (mm)

Ød1 h6	L3	L1k +/- 0.5	L4	Ød7 H8	Ød3 Max	Ød4 Min
18.0	27.9	37.5	9.60	33.0	32.0	34.0
20.0	27.9	37.5	9.60	35.0	34.0	36.0
22.0	27.9	37.5	9.60	37.0	36.0	38.0
24.0	29.9	40.0	10.1	39.0	38.0	40.0
25.0	29.9	40.0	10.1	40.0	39.0	41.0
28.0	32.4	42.5	10.1	43.0	42.0	44.0
30.0	32.4	42.5	10.1	45.0	44.0	46.0
32.0	32.4	42.5	10.1	48.0	46.0	48.0
33.0	32.4	42.5	10.1	48.0	47.0	49.0
35.0	32.4	42.5	10.1	50.0	49.0	51.0
38.0	33.9	45.0	11.1	56.0	52.7	58.0
40.0	33.9	45.0	11.1	58.0	55.9	60.0
43.0	33.9	45.0	11.1	61.0	59.1	63.0
45.0	33.9	45.0	11.1	63.0	59.6	65.0
48.0	33.9	45.0	11.1	66.0	62.2	68.0
50.0	34.4	47.5	13.1	70.0	65.4	70.0
53.0	34.4	47.5	13.1	73.0	68.6	73.0
55.0	34.4	47.5	13.1	75.0	70.1	75.0
58.0	38.9	52.5	13.6	78.0	74.9	83.0
60.0	38.9	52.5	13.6	80.0	74.9	85.0
63.0	38.9	52.5	13.6	83.0	78.1	88.0
65.0	38.9	52.5	13.6	85.0	84.2	90.0
68.0	37.4	52.5	15.1	90.0	87.4	93.0
70.0	44.9	60.0	15.1	92.0	87.4	95.0
75.0	44.9	60.0	15.1	97.0	93.7	104.0
80.0	43.8	60.0	16.2	105.0	100.1	109.0
85.0	43.8	60.0	16.2	110.0	103.2	114.0
90.0	49.2	65.0	15.8	115.0	109.6	119.0
95.0	49.2	65.0	15.8	120.0	112.8	124.0
100.0	49.2	65.0	15.8	125.0	119.1	129.0

TSSAI™ and DIN Stationary

Taper locked rotary unit designed for limited access applications.



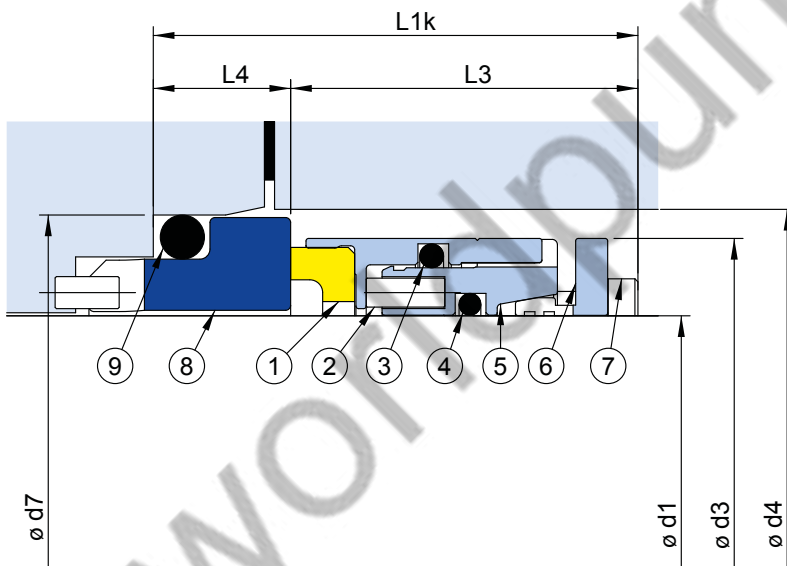
The seal is offered with the following features:

- Non-shaft-fretting design to reduce cost of equipment overhaul
- Maximizes seal life in suspensions and liquids such as slurries given the smooth non-clogging profile (springs out of the product)
- Hydraulically balanced seal-face
- Short internal working length
- Excellent general service seal
- Fits 0.312" (8mm) cross section in smaller pump models
- Can be clamped axially when not accessible radially

Item	Description	Material
1	SSAI Rotary	316L SS - Carbon / TC / SiC
2	Springs	Alloy 276
3	Dynamic O Ring	Viton® / EPR / FEP / Kalrez® / Aflas®
4	Static O Ring	Viton® / EPR / FEP / Kalrez® / Aflas®
5	TSSAI Inner Barrel	316L SS
6	TSSAI Taper Ring	316L SS
7	Cap Head Screw	Stainless Steel
8	S05 Stationary	Ceramic / SiC
9	Stationary O Ring	Viton® / EPR / FEP / Kalrez® / Aflas®

TSSAI™ Size Chart (mm)

Ød1 h6	L3	L1k +/- 0.5	L4	Ød7 H8	Ød3 Max	Ød4 Min
20.0	27.9	37.5	9.60	35.0	34.0	36.0
22.0	27.9	37.5	9.60	37.0	36.0	38.0
24.0	29.9	40.0	10.1	39.0	38.0	40.0
25.0	29.9	40.0	10.1	40.0	39.0	41.0
28.0	32.4	42.5	10.1	43.0	42.0	44.0
30.0	32.4	42.5	10.1	45.0	44.0	46.0
32.0	32.4	42.5	10.1	48.0	46.0	48.0
33.0	32.4	42.5	10.1	48.0	47.0	49.0
35.0	32.4	42.5	10.1	50.0	49.0	51.0
38.0	33.9	45.0	11.1	56.0	52.7	58.0
40.0	33.9	45.0	11.1	58.0	55.9	60.0
43.0	33.9	45.0	11.1	61.0	59.0	63.0
45.0	33.9	45.0	11.1	63.0	59.0	65.0
48.0	33.9	45.0	11.1	66.0	62.2	68.0
50.0	34.4	47.5	13.1	70.0	65.4	70.0
53.0	34.4	47.5	13.1	73.0	68.6	73.0
55.0	34.4	47.5	13.1	75.0	70.1	75.0
58.0	38.9	52.5	13.6	78.0	74.9	83.0
60.0	38.9	52.5	13.6	80.0	74.9	85.0
63.0	38.9	52.5	13.6	83.0	78.1	88.0
65.0	38.9	52.5	13.6	85.0	84.2	90.0
68.0	37.9	52.5	15.1	90.0	87.4	93.0
70.0	44.9	60.0	15.1	92.0	87.4	95.0
75.0	44.9	60.0	15.1	97.0	93.7	104.0
80.0	43.8	60.0	16.2	105.0	100.1	109.0
85.0	43.8	60.0	16.2	110.0	103.2	114.0
90.0	49.2	65.0	15.8	115.0	109.6	119.0
95.0	49.2	65.0	15.8	120.0	112.8	124.0
100.0	49.2	65.0	15.8	125.0	119.1	129.0



“Our purpose is to give our customers such exceptional service that they need never consider alternative sources of supply.”

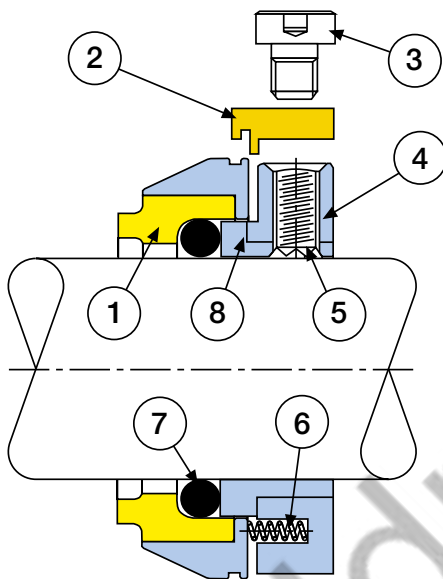
CS™ Range – External Seal with Non-Metallic Parts



An external seal with non-metallic components in contact with the media being sealed.

The seals are offered with the following features:

- External seal with hydraulically balanced seal-face
- Non-metallic wetted parts for use in chemical applications
- Supplied clipped and pre-set to working length
- Available with collet drive for use with hardened or non-metallic sleeves
- Springs not in contact with product
- Hard faces



Item	Description	Material
1	Rotary Face	316L Stainless Steel - Carbon / Teflon*
2	Setting Clip	Brass / Zinc Alloy
3	Clip Screws	Stainless Steel
4	Clamp Ring	316L Stainless Steel
5	Drive Screws	Stainless Steel
6	Springs	Alloy 276
7	Static O Ring	FKM / EPR / FEP / FFKM / TFE/P
8	Backup Ring (Optional)	Stainless Steel

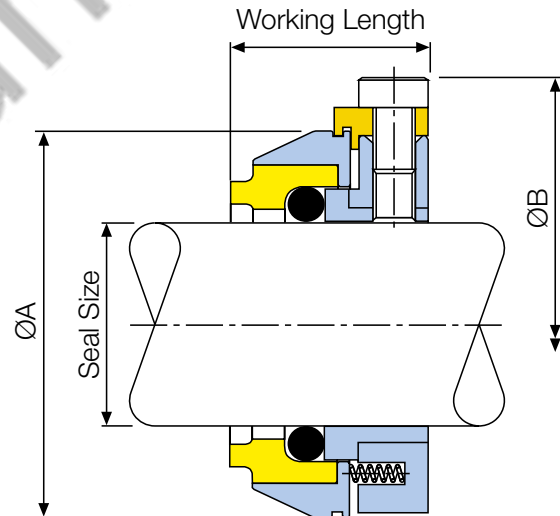
*Ask for availability - SiC, Ceramic

CS™ Size Chart (inches)

Seal Size	Working Length	ØA	ØB
0.625	1.099	1.622	2.192
0.750	1.099	1.747	2.317
0.875	1.099	1.872	2.442
1.000	1.099	1.997	2.567
1.125	1.099	2.122	2.692
1.250	1.099	2.247	2.817
1.375	1.099	2.372	2.942
1.500	1.099	2.497	3.067
1.625	1.099	2.622	3.192
1.750	1.099	2.747	3.317
1.875	1.099	2.872	3.442
2.000	1.099	2.997	3.567
2.125	1.099	3.122	3.692
2.250	1.099	3.247	3.817
2.375	1.099	3.372	3.942
2.500	1.099	3.497	4.067
2.625	1.192	3.866	4.436
2.750	1.192	3.991	4.561
2.875	1.192	4.116	4.686
3.000	1.192	4.241	4.811
3.125	1.192	4.366	4.936
3.250	1.192	4.491	5.061
3.375	1.192	4.616	5.186
3.500	1.192	4.741	5.311
3.625	1.192	4.866	5.436
3.750	1.192	4.991	5.561
3.875	1.192	5.116	5.686
4.000	1.192	5.241	5.811

CS™ Size Chart (mm)

Seal Size	Working Length	ØA	ØB
20	27.91	45.3	59.8
22	27.91	47.3	61.8
24	27.91	49.3	63.8
25	27.91	50.3	64.8
28	27.91	53.3	67.8
30	27.91	55.3	69.8
32	27.91	57.3	71.8
33	27.91	58.3	72.8
35	27.91	60.3	74.8
38	27.91	63.3	77.8
40	27.91	65.3	79.8
42	27.91	67.3	81.8
43	27.91	68.3	82.8
45	27.91	70.3	84.8
48	27.91	73.3	87.8
50	27.91	75.3	89.8
53	27.91	78.3	92.8
55	27.91	80.3	94.8
60	27.91	85.3	99.8
65	30.28	96.5	111.0
70	30.28	101.5	116.0
75	30.28	106.5	121.0
80	30.28	111.5	126.0
85	30.28	116.5	131.0
90	30.28	121.5	136.0
95	30.28	126.5	141.0
100	30.28	131.5	146.0



CS™ Range

CS™ — External chemical component seal with socket set screw clamping.

CSC™ — External chemical component seal with collet clamping design.

CSCT™ — External chemical component seal with collet clamping and Teflon (GFT) seal face.

CST™ — External chemical component seal (CS) with Teflon (GFT) seal face.

NSI™ & USI™ – Stationary Seat

This is a self-aligning or non self-aligning stationary seat suitable for use with the range of component seals.



NSI™ Size Chart (inches)

Seal Size	A	B	ØC	ØD	ØE	F
1.000	0.800	0.600	2.000	1.559	1.157	0.200
1.125	0.800	0.600	2.125	1.677	1.275	0.200
1.250	0.800	0.600	2.250	1.828	1.432	0.250
1.375	0.800	0.600	2.375	1.953	1.550	0.200
1.500	0.800	0.600	2.625	2.076	1.574	0.200
1.625	0.800	0.600	2.750	2.200	1.707	0.200
1.750	0.800	0.600	3.000	2.325	1.825	0.200
1.875	0.800	0.600	3.125	2.450	1.950	0.200
2.000	0.800	0.600	3.250	2.575	2.110	0.200
2.125	0.800	0.600	3.500	2.700	2.218	0.200
2.250	0.800	0.600	3.625	2.825	2.325	0.200
2.375	0.800	0.600	3.750	2.950	2.450	0.200
2.500	0.800	0.600	4.000	3.075	2.575	0.200
2.625	1.044	0.725	4.125	3.325	2.740	0.319
2.750	1.044	0.725	4.250	3.450	2.865	0.319
2.875	1.044	0.725	4.625	3.575	2.990	0.319
3.000	1.044	0.725	4.750	3.700	3.115	0.319
3.125	1.044	0.725	4.875	3.825	3.240	0.319
3.250	1.044	0.725	5.000	3.950	3.365	0.319
3.375	1.044	0.725	5.125	4.075	3.490	0.319
3.500	1.044	0.725	5.250	4.200	3.615	0.319
3.625	1.044	0.725	5.375	4.325	3.740	0.319
3.750	1.044	0.725	5.750	4.450	3.865	0.319
3.875	1.044	0.725	5.875	4.575	3.990	0.319
4.000	1.044	0.725	6.000	4.700	4.115	0.319

USI™ Size Chart (inches)

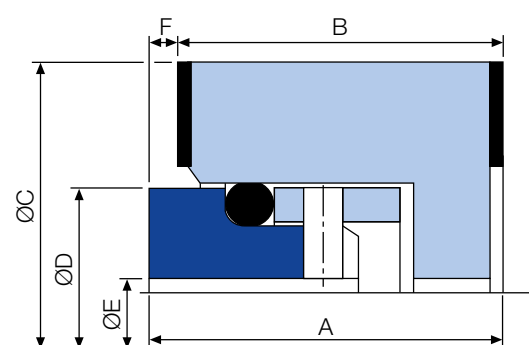
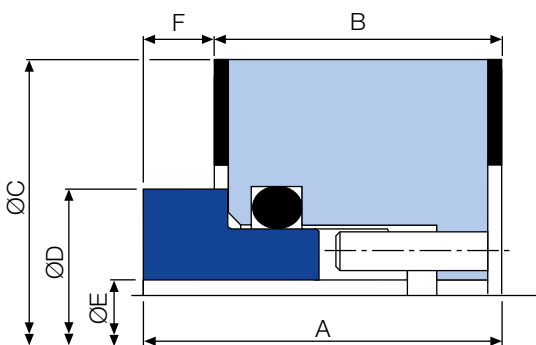
Seal Size	A	B	ØC	ØD	ØE	F
1.000	1.047	0.967	2.088	1.559	1.157	0.080
1.125	1.047	0.967	2.215	1.677	1.275	0.080
1.250	1.047	0.967	2.338	1.828	1.432	0.080
1.375	1.047	0.967	2.408	1.953	1.550	0.080
1.500	1.047	0.967	2.718	2.076	1.574	0.080
1.625	1.086	1.006	2.840	2.200	1.707	0.080
1.750	1.086	1.006	3.090	2.325	1.825	0.080
1.875	1.086	1.006	3.218	2.450	1.950	0.080
2.000	1.086	1.006	3.468	2.575	2.110	0.080
2.125	1.166	1.006	3.718	2.700	2.218	0.160
2.250	1.164	1.026	3.838	2.825	2.325	0.138
2.375	1.164	1.026	3.878	2.950	2.450	0.138
2.500	1.164	1.026	4.088	3.075	2.575	0.138
2.625	1.194	1.026	4.218	3.325	2.740	0.168
2.750	1.194	1.026	4.378	3.450	2.865	0.168
2.875	1.194	1.026	4.498	3.575	2.990	0.168
3.000	1.194	1.026	4.558	3.700	3.115	0.168
3.125	1.194	1.026	4.687	3.825	3.240	0.168
3.250	1.194	1.026	4.877	3.950	3.365	0.168
3.375	1.194	1.026	5.000	4.075	3.490	0.168
3.500	1.194	1.026	5.128	4.200	3.615	0.168
3.625	1.194	1.026	5.248	4.325	3.740	0.168
3.750	1.194	1.026	5.378	4.450	3.865	0.168
3.875	1.194	1.026	5.497	4.575	3.990	0.168
4.000	1.194	1.026	5.628	4.700	4.115	0.168

NSI™ Size Chart (mm)

Seal Size	A	B	ØC	ØD	ØE	F
25.0	20.3	15.2	50.8	39.6	29.4	5.1
28.0	20.3	15.2	54.0	42.6	32.4	5.1
30.0	20.3	15.2	57.2	46.4	36.4	5.1
32.0	20.3	15.2	57.2	46.4	36.4	5.1
33.0	20.3	15.2	57.2	46.4	36.4	5.1
35.0	20.3	15.2	60.3	49.6	39.4	5.1
40.0	20.3	15.2	69.9	55.9	43.4	5.1
42.0	20.3	15.2	69.9	55.9	43.4	5.1
43.0	20.3	15.2	76.2	59.1	46.4	5.1
45.0	20.3	15.2	76.2	59.1	46.4	5.1
48.0	20.3	15.2	79.4	62.2	49.5	5.1
50.0	20.3	15.2	82.6	65.4	53.6	5.1
53.0	20.3	15.2	88.9	68.6	56.3	5.1
55.0	20.3	15.2	88.9	68.6	56.3	5.1
58.0	20.3	15.2	95.3	74.9	62.2	5.1
60.0	20.3	15.2	95.3	74.9	62.2	5.1
63.0	20.3	15.2	101.6	78.1	65.4	5.1
65.0	26.5	18.4	104.8	84.5	69.6	8.1
68.0	26.5	18.4	108.0	87.6	72.8	8.1
70.0	26.5	18.4	108.0	87.6	72.8	8.1
75.0	26.5	18.4	120.7	94.0	79.1	8.1
80.0	26.5	18.4	127.0	100.3	85.5	8.1
85.0	26.5	18.4	130.2	103.5	88.6	8.1
90.0	26.5	18.4	136.5	109.9	95.0	8.1
95.0	26.5	18.4	146.1	113.0	98.2	8.1
100.0	26.5	18.4	152.4	119.4	104.5	8.1

USI™ Size Chart (mm)

Seal Size	A	B	ØC	ØD	ØE	F
25.0	26.6	24.6	53.0	39.6	29.4	2.0
28.0	26.6	24.6	56.3	42.6	32.4	2.0
30.0	26.6	24.6	59.4	46.4	36.4	2.0
32.0	26.6	24.6	59.4	46.4	36.4	2.0
33.0	26.6	24.6	59.4	46.4	36.4	2.0
35.0	26.6	24.6	61.2	49.6	39.4	2.0
40.0	27.6	25.6	72.1	55.9	43.4	2.0
42.0	27.6	25.6	72.1	55.9	43.4	2.0
43.0	27.6	25.6	78.5	59.1	46.4	2.0
45.0	27.6	25.6	78.5	59.1	46.4	2.0
48.0	27.6	25.6	81.7	62.2	49.5	2.0
50.0	27.6	25.6	88.1	65.4	53.6	2.0
53.0	29.6	25.6	94.4	68.6	56.3	4.1
55.0	29.6	25.6	94.4	68.6	56.3	4.1
58.0	29.6	26.1	98.5	74.9	62.2	3.5
60.0	29.6	26.1	98.5	74.9	62.2	3.5
63.0	29.6	26.1	103.8	78.1	65.4	3.5
65.0	30.3	26.1	107.1	84.5	69.6	4.3
68.0	30.3	26.1	111.2	87.6	72.8	4.3
70.0	30.3	26.1	111.2	87.6	72.8	4.3
75.0	30.3	26.1	115.8	94.0	79.1	4.3
80.0	30.3	26.1	123.9	100.3	85.8	4.3
85.0	30.3	26.1	127.0	103.5	88.6	4.3
90.0	30.3	26.1	133.3	109.9	95.0	4.3
95.0	30.3	26.1	136.6	113.0	98.2	4.3
100.0	30.3	26.1	143.0	119.4	104.5	4.3



L-Seat™ and LA-Seat™ - Stationary Seats

A selection of the stationary seats available in a wide variety of material face combinations.



L-Seat™ Size Chart (inches)

ShaftØ	A	B	ØC	ØD	ØE	F
1.000	0.625	0.375	2.020	1.625	1.100	0.250
1.125	0.625	0.375	2.145	1.750	1.225	0.250
1.187	0.625	0.375	2.207	1.812	1.287	0.250
1.250	0.625	0.375	2.270	1.875	1.350	0.250
1.375	0.625	0.375	2.395	2.000	1.475	0.250
1.500	0.625	0.375	2.645	2.250	1.600	0.250
1.625	0.625	0.375	2.770	2.375	1.725	0.250
1.750	0.625	0.375	3.020	2.500	1.850	0.250
1.875	0.625	0.375	3.145	2.625	1.975	0.250
2.000	0.625	0.375	3.270	2.750	2.100	0.250
2.125	0.625	0.375	3.520	2.875	2.225	0.250
2.250	0.625	0.375	3.645	3.000	2.350	0.250
2.375	0.625	0.375	3.770	3.125	2.475	0.250
2.500	0.625	0.375	4.020	3.250	2.600	0.250
2.625	0.625	0.375	4.145	3.375	2.725	0.250

LA-Seat™ Size Chart (inches)

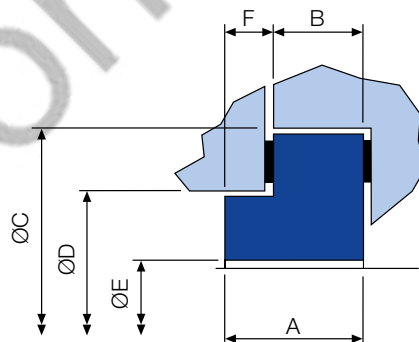
ShaftØ	A	B	ØC	ØD	ØE	F
0.625	0.500	0.250	1.640	1.250	0.730	0.250
0.750	0.500	0.250	1.765	1.375	0.850	0.250
0.875	0.500	0.250	1.890	1.500	0.950	0.250
0.937	0.625	0.375	1.960	1.562	1.045	0.250
1.000	0.625	0.375	2.110	1.625	1.100	0.250
1.125	0.625	0.375	2.240	1.750	1.225	0.250
1.187	0.625	0.375	2.457	1.813	1.287	0.250
1.250	0.625	0.375	2.360	1.875	1.360	0.250
1.375	0.625	0.375	2.430	2.000	1.478	0.250
1.500	0.625	0.375	2.740	2.250	1.600	0.250
1.625	0.625	0.375	2.860	2.375	1.725	0.250
1.750	0.625	0.375	3.110	2.500	1.850	0.250
1.875	0.625	0.375	3.240	2.625	1.950	0.250
2.000	0.625	0.375	3.490	2.750	2.100	0.250
2.125	0.625	0.375	3.740	2.875	2.225	0.250
2.250	0.625	0.375	3.860	3.000	2.350	0.250
2.375	0.625	0.375	3.900	3.067	2.475	0.250
2.500	0.625	0.375	4.110	3.250	2.600	0.250
2.625	0.625	0.375	4.240	3.375	2.725	0.250

L-Seat™ Size Chart (mm)

ShaftØ	A	B	ØC	ØD	ØE	F
25.0	15.9	9.5	51.3	41.3	27.9	6.4
28.0	15.9	9.5	54.5	44.5	31.1	6.4
30.0	15.9	9.5	56.1	46.0	32.7	6.4
32.0	15.9	9.5	57.7	47.6	34.3	6.4
35.0	15.9	9.5	60.8	50.8	37.5	6.4
38.0	15.9	9.5	67.2	57.2	40.6	6.4
40.0	15.9	9.5	70.4	60.3	43.8	6.4
43.0	15.9	9.5	76.7	63.5	47.6	6.4
45.0	15.9	9.5	79.9	66.7	50.2	6.4
50.0	15.9	9.5	83.1	69.9	53.3	6.4
55.0	15.9	9.5	92.6	76.2	59.7	6.4
60.0	15.9	9.5	95.8	79.4	62.9	6.4
65.0	15.9	9.5	105.3	85.7	69.2	6.4

LA-Seat™ Size Chart (mm)

ShaftØ	A	B	ØC	ØD	ØE	F
16.0	12.7	6.4	41.7	31.8	18.5	6.4
18.0	12.7	6.4	44.8	34.9	21.5	6.4
20.0	12.7	6.4	48.0	38.1	24.1	6.4
24.0	15.9	9.5	49.8	39.7	26.5	6.4
25.0	15.9	9.5	53.6	41.3	27.9	6.4
28.0	15.9	9.5	56.9	44.5	31.1	6.4
30.0	15.9	9.5	62.4	46.1	32.7	6.4
32.0	15.9	9.5	59.9	47.6	34.5	6.4
35.0	15.9	9.5	61.7	50.8	37.5	6.4
38.0	15.9	9.5	69.6	57.2	40.6	6.4
40.0	15.9	9.5	72.6	60.3	43.8	6.4
42.0	15.9	9.5	80.0	63.5	47.0	6.4
45.0	15.9	9.5	82.3	66.7	49.5	6.4
50.0	15.9	9.5	88.6	69.9	53.3	6.4
55.0	15.9	9.5	98.0	76.2	59.7	6.4
60.0	15.9	9.5	99.0	77.9	62.8	6.4
65.0	15.9	9.5	107.7	85.7	69.2	6.4



- L-Seats™ and LA-Seats™ listed are inventoried in Ceramic
- For larger Ceramic L-Seats™ and LA-Seats™; 2.750" - 4.000" (70mm - 100mm) please contact the AESSEAL® technical department
- Sizes and materials not listed are available to order

T-Seat™ & TS-Seat™ - Stationary Seats



T-Seat™ Size Chart (inches)

ShaftØ	A	B	ØC	ØD	ØE	F
0.625	0.687	0.312	1.702	1.313	0.665	0.187
0.750	0.687	0.312	1.827	1.437	0.790	0.187
0.875	0.687	0.312	1.952	1.563	0.915	0.187
0.937	0.687	0.312	2.077	1.687	1.040	0.187
1.000	0.687	0.312	2.077	1.687	1.040	0.187
1.125	1.062	0.437	2.327	1.813	1.165	0.312
1.187	1.062	0.437	2.337	1.929	1.221	0.312
1.250	1.062	0.437	2.515	2.000	1.290	0.312
1.375	1.062	0.437	2.640	2.125	1.415	0.312
1.437	1.062	0.437	2.765	2.250	1.540	0.312
1.500	1.062	0.437	2.765	2.250	1.540	0.312
1.625	1.062	0.437	3.015	2.500	1.685	0.312
1.750	1.062	0.437	3.140	2.625	1.810	0.312
1.875	1.062	0.437	3.265	2.750	1.935	0.312
2.000	1.062	0.437	3.390	2.875	2.060	0.312
2.125	1.312	0.562	3.765	3.125	2.185	0.375
2.250	1.312	0.562	3.890	3.250	2.310	0.375
2.375	1.312	0.562	4.015	3.375	2.435	0.375
2.500	1.312	0.562	4.140	3.500	2.560	0.375
2.625	1.312	0.562	4.265	3.625	2.685	0.375

TS-Seat™ Size Chart (inches)

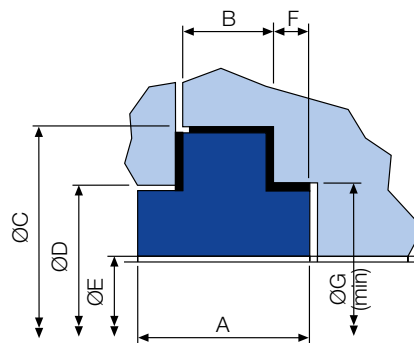
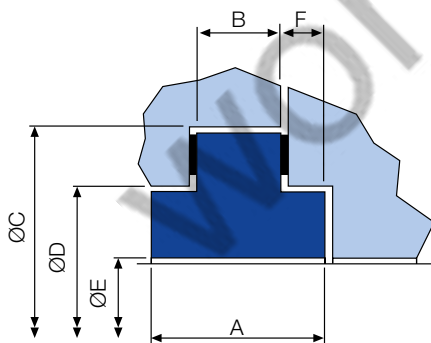
ShaftØ	A	B	ØC	ØD	ØE	F	ØG	Shroud
0.750	0.687	0.312	1.890	1.437	0.790	0.187	1.437	NO
0.875	0.687	0.312	2.000	1.563	0.915	0.187	1.563	NO
1.000	0.687	0.312	2.126	1.687	1.040	0.187	1.687	NO
1.125	1.062	0.362	2.560	1.813	1.165	0.262	2.000	YES
1.250	1.062	0.487	2.677	2.000	1.290	0.262	2.125	YES
1.375	1.062	0.487	2.795	2.125	1.415	0.262	2.250	YES
1.500	1.062	0.487	3.071	2.250	1.540	0.262	2.500	YES
1.625	1.062	0.487	3.199	2.500	1.685	0.262	2.625	YES
1.750	1.062	0.487	3.307	2.625	1.810	0.262	2.750	YES
1.875	1.062	0.487	3.425	2.750	1.935	0.262	2.875	YES
2.000	1.062	0.487	3.819	2.875	2.060	0.262	3.125	YES
2.125	1.312	0.612	3.937	3.125	2.185	0.325	3.250	YES
2.250	1.312	0.612	4.055	3.250	2.310	0.325	3.375	YES
2.375	1.312	0.612	4.173	3.375	2.435	0.325	3.500	YES
2.500	1.312	0.612	4.330	3.500	2.560	0.325	3.625	YES
2.625	1.312	0.612	4.449	3.625	2.685	0.325	3.750	YES

T-Seat™ Size Chart (mm)

ShaftØ	A	B	ØC	ØD	ØE	F
16	17.4	7.9	43.2	33.4	16.9	4.7
18	17.4	7.9	46.4	36.5	20.1	4.7
20	17.4	7.9	49.6	39.7	23.2	4.7
24	17.4	7.9	52.8	42.8	26.4	4.7
25	17.4	7.9	52.8	42.8	26.4	4.7
28	27.0	11.1	59.1	46.1	29.6	7.9
30	27.0	11.1	59.4	49.0	31.0	7.9
32	27.0	11.1	63.9	50.8	32.8	7.9
33	27.0	11.1	67.1	54.0	35.9	7.9
35	27.0	11.1	67.1	54.0	35.9	7.9
38	27.0	11.1	70.2	57.2	39.1	7.9
40	27.0	11.1	76.6	63.5	42.8	7.9
43	27.0	11.1	79.8	66.7	46.0	7.9
45	27.0	11.1	79.8	66.7	46.0	7.9
48	27.0	11.1	83.0	70.0	49.2	7.9
50	27.0	11.1	86.1	73.0	52.3	7.9
53	33.3	14.3	95.6	79.4	55.5	9.5
55	33.3	14.3	98.8	82.6	58.7	9.5
58	33.3	14.3	102.0	85.7	61.8	9.5
60	33.3	14.3	102.0	85.7	61.8	9.5
63	33.3	14.3	105.1	89.0	65.0	9.5
65	33.3	14.3	108.3	92.1	68.2	9.5

TS-Seat™ Size Chart (mm)

ShaftØ	A	B	ØC	ØD	ØE	F	ØG	Shroud
16	17.4	7.9	48.0	36.5	20.1	4.7	36.5	NO
18	17.4	7.9	48.0	36.5	20.1	4.7	36.5	NO
20	17.4	7.9	50.8	39.7	23.2	4.7	39.7	NO
24	17.4	9.2	54.0	42.8	26.4	6.7	42.8	NO
25	17.4	12.4	54.0	42.8	26.4	6.7	42.8	NO
28	27.0	12.4	65.0	46.1	29.6	6.7	50.8	YES
30	27.0	12.4	68.0	49.0	31.0	6.7	54.0	YES
32	27.0	12.4	68.0	50.8	32.8	6.7	54.0	YES
33	27.0	12.4	71.0	54.0	35.9	6.7	57.2	YES
35	27.0	12.4	71.0	54.0	35.9	6.7	57.2	YES
38	27.0	12.4	78.0	57.2	39.1	6.7	63.5	YES
40	27.0	12.4	81.3	63.5	42.8	8.3	66.7	YES
43	27.0	12.4	84.0	66.7	46.0	8.3	69.9	YES
45	27.0	12.4	84.0	66.7	46.0	8.3	69.9	YES
48	27.0	12.4	97.0	73.0	52.3	8.3	79.4	YES
50	27.0	12.4	97.0	73.0	52.3	8.3	79.4	YES
53	33.3	15.5	100.0	79.4	55.5	8.3	82.6	YES
55	33.3	15.5	103.0	82.6	58.7	8.3	85.7	YES
58	33.3	15.5	106.0	85.7	61.8	8.3	88.9	YES
60	33.3	15.5	106.0	85.7	61.8	8.3	88.9	YES
63	33.3	15.5	110.0	88.9	65.0	8.3	92.1	YES
65	33.3	15.5	113.0	92.1	68.2	8.3	95.3	YES



- Seats listed are inventoried in Ceramic, TS-Seats™ have 25% glass filled PTFE shroud (unless otherwise stated)
- For larger Ceramic T-Seats™ and TS-Seats™; 2.750" - 4.000" (70mm - 100mm), please contact the AESSEAL® technical department
- Sizes and materials not listed are available to order

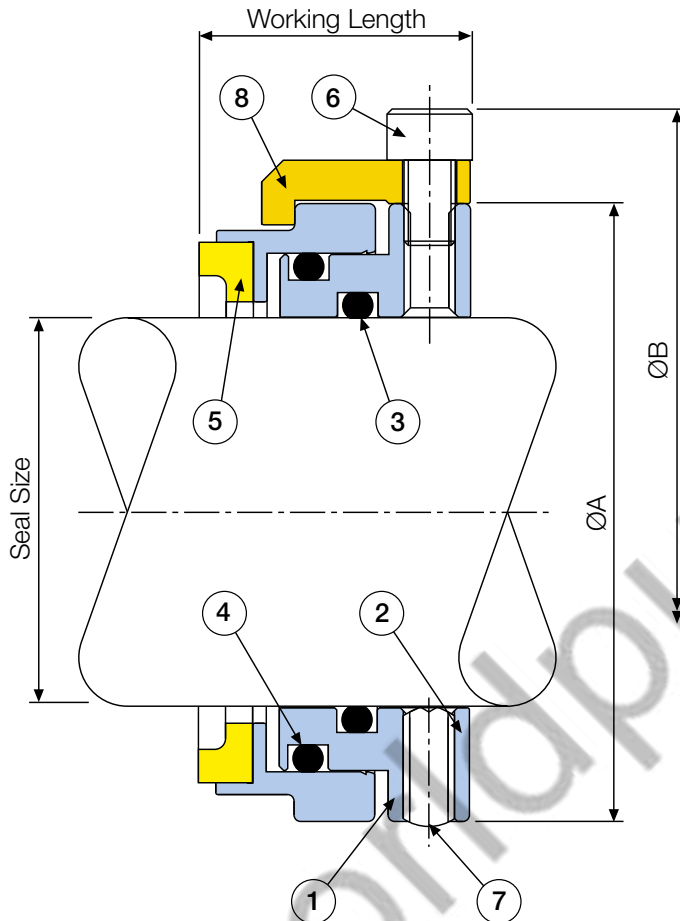
NCE™ – Non Chemical External Seal

An external seal with metallic components in contact with the media being sealed.



The NCE™ is offered with the following features:

- Hydraulically balanced seal face design
- Non shaft fretting
- Multiple springs, out of the media being pumped



NCE™ Size Chart (inches)

Seal Size	Working Length	ØA	ØB
1.000	1.096	1.834	2.618
1.125	1.096	1.992	2.776
1.250	1.096	2.070	2.854
1.375	1.096	2.187	2.971
1.500	1.125	2.510	3.294
1.625	1.125	2.510	3.294
1.750	1.125	2.636	3.420
1.875	1.125	2.760	3.544
2.000	1.087	2.886	3.670
2.125	1.087	3.014	3.798
2.250	1.087	3.139	3.922
2.375	1.087	3.264	4.048
2.500	1.087	3.388	4.172
2.625	1.250	3.556	4.340
2.750	1.250	3.681	4.465
2.875	1.250	3.806	4.590
3.000	1.250	3.931	4.715
3.125	1.250	4.056	4.840
3.250	1.250	4.181	4.965
3.375	1.250	4.306	5.090
3.500	1.250	4.431	5.215
3.625	1.250	4.556	5.340
3.750	1.250	4.681	5.465
3.875	1.250	4.806	5.590
4.000	1.250	4.931	5.715

NCE™ Size Chart (mm)

Seal Size	Working Length	ØA	ØB
24.0	27.8	46.6	66.5
25.0	27.8	47.6	67.5
28.0	27.8	50.6	70.5
30.0	27.8	50.6	70.5
32.0	27.8	52.6	72.5
33.0	27.8	55.5	75.4
35.0	27.8	55.5	75.4
38.0	28.6	63.8	83.7
40.0	28.6	63.8	83.7
43.0	28.6	67.0	86.9
45.0	28.6	67.0	86.9
48.0	27.6	73.3	93.2
50.0	27.6	73.3	93.2
53.0	27.6	76.6	96.5
55.0	27.6	76.6	96.5
58.0	27.6	82.9	102.8
60.0	27.6	82.9	102.8
63.0	27.6	86.1	106.0
65.0	31.7	90.3	110.2
68.0	31.7	93.5	113.4
70.0	31.7	93.5	113.4
75.0	31.7	99.8	119.7
80.0	31.7	103.0	122.9
85.0	31.7	109.4	129.3
90.0	31.7	115.7	135.6
95.0	31.7	118.9	138.8
100.0	31.7	125.2	
145.1			

Item	Description	Material
1	Springs (not shown)	Alloy 276
2	Clamp Ring	316L Stainless Steel
3	O Ring	FKM / EPR / FFKM / TFE/P
4	O Ring	FKM / EPR / FFKM / TFE/P
5	Rotary Face	316L SS - Carbon / TC / SIC
6	Clip Screws	Stainless Steel
7	Set Screw	Stainless Steel
8	Setting Clips	Brass

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Use double mechanical seals with hazardous products.

Always take safety precautions:

- Guard your equipment
- Wear protective clothing

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