

CSS™ / CSSN™ CDP™ / CDPN™

Single & Double Cartridge Seal Ranges



- Cartridge seals for reliable installation
- Balanced seal design
- No shaft fretting
- Robust design
- Registered designs

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

CSS™ / CSSN™ & CDP™ / CDPN™ - Single and Double Cartridge Seals

Industry leading modular design is proven to decrease costs and increase equipment up-time.

The AESSEAL® CSS™ / CSSN™ and CDP™ / CDPN™ ranges of cartridge mechanical seals have been designed as high performance sealing solutions for general applications.

These products build on over a decade of proven performance from the AESSEAL® CURC™ and CDSA™ range of seals. They combine this with cutting edge manufacturing techniques to represent the best value for money sealing solutions available today.

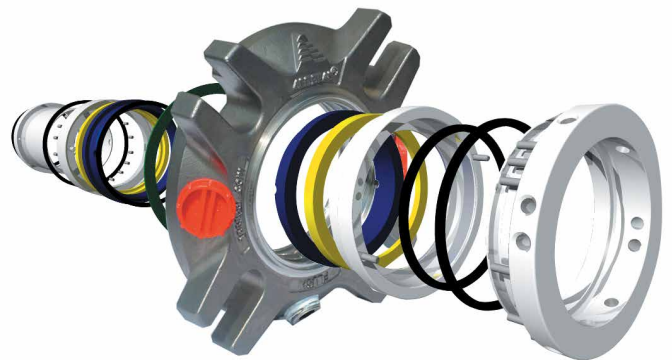
CSSN™

The modular system allows 10 million seal permutations, ensuring AESSEAL® can supply the right solution to meet the customers time frame.



CDPN™

The AESSEAL® modular sealing system combined with unrivalled inventory levels ensure that any standard seal in any size or material combination is available for despatch immediately.



AESSEAL® does not believe in “just in time”. Relative to sales, we believe that we hold the highest level of inventory in the industry and as a result we can offer the best delivery performance.

AESSEAL Global Technology Centre



Extensive AESSEAL® test facilities



CSS™ / CSSN™ & CDP™ / CDPN™ Features and Benefits

Two standard gland configurations

For sizes from 1.000" to 3.500" (24-85mm) the seal is a CSSN™ or CDPN™.
The CSS™ / CDP™ are available from 3.625" to 4.750" (90-120mm).

1/4" NPT flush / vent port supplied with a stainless steel blanking plug as standard.

Fits both small and ANSI+ box bore pumps without modification.



Modular Seal Face Design

Hydraulically balanced face design ensures optimum fluid film during process fluctuations.
A wide range of inventoried materials allows maximum flexibility and delivery performance.
Metal-to-metal pin drive eliminates potential impact damage.

Captured Rotary 'O' Ring

Captured 'O' ring design prevents extrusion under vacuum conditions.

Multi-Spring Design

Alloy 276 helical coil springs ensure accurate uniform seal face loading throughout the seal life.
Springs are placed out of the product media to eliminate clogging and loss of face loading.

Reliable Drive

Drive screws clamp directly on to shaft or sleeve to minimise drive loss.
Drive screws which do not deform the seal sleeve ensure easy removal and refitting for equipment maintenance.
Robust setting clips guarantee correct working length and can be re-used for removal and refitting.



CSSN™ Cartridge
Single Mechanical Seal



CDPN™ Cartridge
Double Mechanical Seal

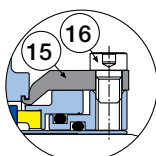
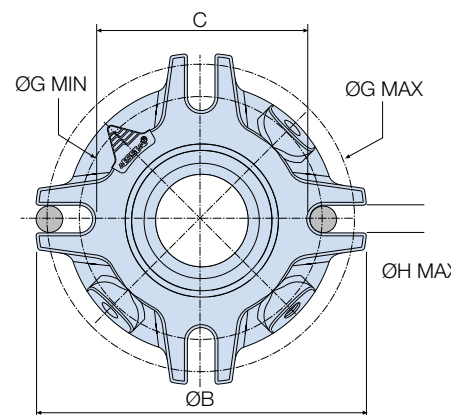
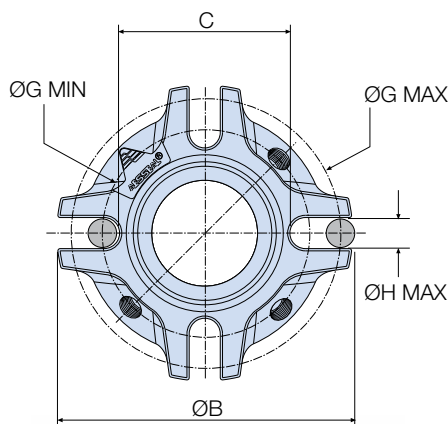
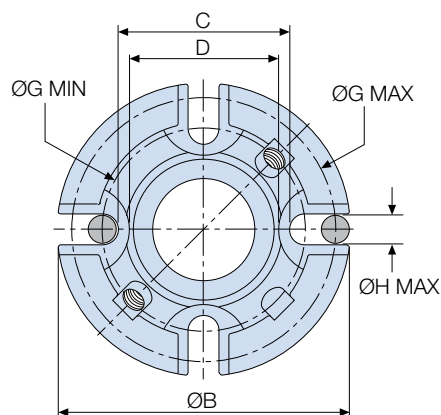
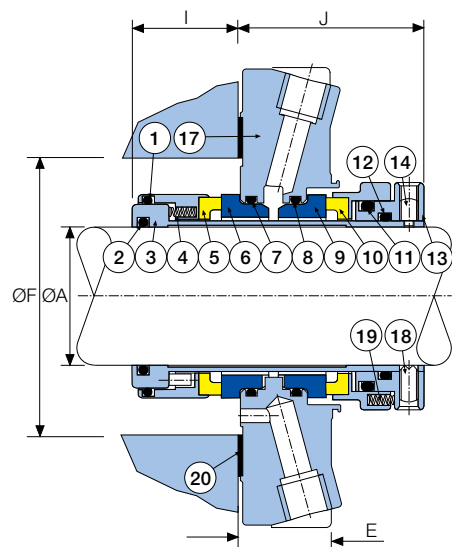
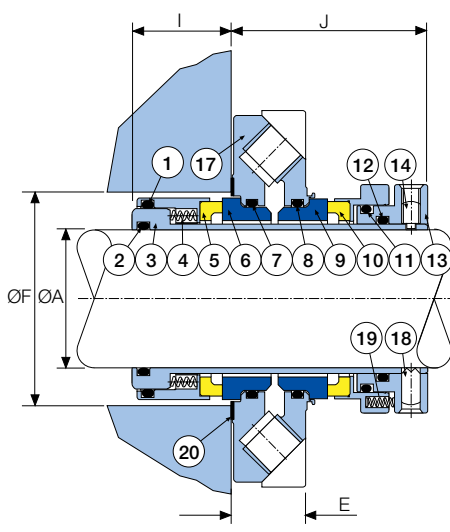
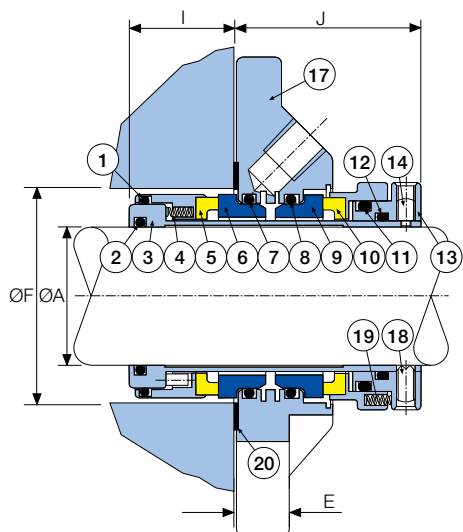
CDP™

3.625" to 4.750" (90mm - 120mm)

CDPN™

1.000" to 3.500" (24mm - 85mm)

CDPN™ ANSI+



Setting Clip
Details

Item	Description	Material	Item	Description	Material
1	Rotary O Ring	FKM / EPR / FFKM / TFE/P	11	Drive Band O Ring	FKM / EPR / FFKM / TFE/P
2	Sleeve O Ring	FKM / EPR / FFKM / TFE/P	12	Clamp Ring O Ring	FKM / EPR / FFKM / TFE/P
3	Sleeve	316L Stainless Steel	13	Clamp Ring	316L Stainless Steel
4	Springs	Alloy 276	14	Anti-Tamper Screw	316 Stainless Steel
5	Inner Rotary Face	316L SS - Carbon / TC / SiC	15	Centering Clips	Brass
6	Inner Stationary Face	SiC / Ceramic† / TC / 316L Stainless Steel-Chr.Ox.*	16	Clip Screws	316 Stainless Steel
7	Stationary O Ring	FKM / EPR / FFKM / TFE/P	17	Gland	316 Stainless Steel
8	Stationary O Ring	FKM / EPR / FFKM / TFE/P	18	Drive Screws	316 Stainless Steel
9	Outer Stationary Face	SiC / Ceramic† / TC / 316L Stainless Steel-Chr.Ox.*	19	Springs	Alloy 276
10	Outer Rotary Face	316L SS - Carbon / TC / SiC	20	Gasket	AF1 / GFT

All Port Connections are 1/4" NPT.

*This material is not available in sizes up to and including 5.500" (140mm). †This material is not available from 3.125" (80mm) and above.

Please refer to the back page of this brochure for information on support systems for double seals.

CDP™ / CDPN™ & CDPN™ ANSI+ - Size Charts

CDP / CDPN™ Dimensional Information (inches)

Gland Choice	ØA	ØB	C	D	E	ØF Min	ØF Min†	ØF Max	ØG Min	ØG Max	ØH Max	I	J	KMax*
CDPN™	Sizes from 1.000" - 3.500" are the CDPN™													
	1.000	4.125	2.375	-	0.927	1.625	1.665	1.937	2.937	3.625	1/2	1.209	2.020	0.040
	1.125	4.250	2.375	-	0.927	1.750	1.790	2.062	2.937	3.750	1/2	1.209	2.020	0.040
	1.250	4.375	2.500	-	0.927	1.875	1.915	2.187	3.062	3.875	1/2	1.209	2.020	0.040
	1.375	4.375	2.625	-	0.927	2.000	2.040	2.312	3.186	3.875	1/2	1.209	2.020	0.040
	1.500	5.000	2.832	-	0.852	2.250	2.290	2.500	3.375	4.500	1/2	1.090	2.226	0.040
	1.625	5.000	2.832	-	0.852	2.375	2.415	2.500	3.375	4.500	1/2	1.090	2.226	0.040
	1.750	5.250	3.022	-	0.852	2.500	2.540	2.750	3.562	4.750	1/2	1.090	2.226	0.040
	1.875	5.250	3.022	-	0.852	2.625	2.665	2.750	3.562	4.750	1/2	1.090	2.226	0.040
	2.000	5.500	3.386	-	0.852	2.750	2.790	3.000	3.937	5.000	1/2	1.150	2.250	0.040
	2.125	5.750	3.687	-	0.852	2.875	2.915	3.312	4.375	5.125	5/8	1.150	2.250	0.040
	2.250	5.750	3.687	-	0.852	3.000	3.040	3.312	4.375	5.125	5/8	1.150	2.250	0.040
	2.375	6.000	3.937	-	0.852	3.125	3.165	3.562	4.625	5.375	5/8	1.150	2.250	0.040
	2.500	7.000	4.312	-	0.926	3.375	3.435	3.875	5.000	6.375	5/8	1.127	2.510	0.060
	2.625	7.000	4.312	-	0.926	3.500	3.560	3.875	5.000	6.375	5/8	1.127	2.510	0.060
	2.750	7.000	4.312	-	0.926	3.625	3.685	3.875	5.000	6.375	5/8	1.127	2.510	0.060
	2.875	7.500	4.937	-	0.926	3.750	3.810	4.500	5.625	6.812	5/8	1.127	2.510	0.060
	3.000	7.500	4.937	-	0.926	3.875	3.935	4.500	5.625	6.812	5/8	1.127	2.510	0.060
	3.125	7.500	4.937	-	0.926	4.000	4.060	4.500	5.625	6.812	5/8	1.127	2.510	0.060
	3.250	8.000	5.312	-	0.926	4.125	4.185	4.875	6.000	7.312	5/8	1.127	2.510	0.060
	3.375	8.000	5.312	-	0.926	4.250	4.310	4.875	6.000	7.312	5/8	1.127	2.510	0.060
	3.500	8.000	5.312	-	0.926	4.375	4.435	4.875	6.000	7.312	5/8	1.127	2.510	0.060
CDP™	Sizes from 3.625 upwards are the CDP™													
	3.625	8.500	5.937	5.000	0.769	4.500	4.560	5.000	6.750	7.687	3/4	1.250	2.375	0.060
	3.750	8.500	5.937	5.000	0.769	4.625	4.685	5.125	6.750	7.687	3/4	1.250	2.375	0.060
	3.875	8.500	5.937	5.000	0.769	4.750	4.810	5.250	6.750	7.687	3/4	1.250	2.375	0.060
	4.000	9.000	6.625	5.375	0.769	4.875	4.935	5.500	7.437	8.187	3/4	1.250	2.375	0.060
	4.625	10.000	7.345	6.125	0.769	5.625	5.685	6.625	8.312	9.062	7/8	1.250	2.375	0.060
	4.750	10.000	7.345	6.125	0.769	5.625	5.685	6.625	8.312	9.062	7/8	1.250	2.375	0.060

† = F Min + K Max* For K Max explanation please refer to page 6

CDP / CDPN™ - Dimensional Information (mm)

Gland Choice	ØA	ØB	C	D	E	ØF Min	ØF Min†	ØF Max	ØG Min	ØG Max	ØH Max	I	J	KMax*
CDPN™	Sizes from 24mm - 85mm are the CDPN™													
	24	104.8	60.3	-	23.5	40.0	41.0	46.0	74.6	92.0	12	30.7	51.3	1.0
	25	104.8	60.3	-	23.5	41.0	42.0	49.2	74.6	92.0	12	30.7	51.3	1.0
	28	108.0	60.3	-	23.5	44.0	45.0	52.4	74.6	95.3	12	30.7	51.3	1.0
	30	111.0	63.5	-	23.5	46.0	47.0	55.6	77.8	98.4	12	30.7	51.3	1.0
	32	111.0	63.5	-	23.5	48.0	49.0	55.6	77.8	98.4	12	30.7	51.3	1.0
	33	111.0	63.5	-	23.5	49.0	50.0	55.6	77.8	98.4	12	30.7	51.3	1.0
	35	111.0	66.7	-	23.5	50.8	51.8	58.7	80.9	98.4	12	30.7	51.3	1.0
	38	127.0	71.9	-	21.6	57.2	58.2	63.5	85.7	114.3	12	27.7	56.5	1.0
	40	127.0	71.9	-	21.6	57.2	58.2	63.5	85.7	114.3	12	27.7	56.5	1.0
	43	127.0	71.9	-	21.6	60.3	61.3	63.5	85.7	114.3	12	27.7	56.5	1.0
	45	133.4	76.7	-	21.6	63.5	64.5	69.8	90.5	120.7	12	27.7	56.5	1.0
	48	133.4	76.7	-	21.6	66.7	67.7	69.8	90.5	120.7	12	27.7	56.5	1.0
	50	133.4	76.7	-	21.6	68.0	69.0	69.8	90.5	120.7	12	27.7	56.5	1.0
	53	139.7	86.0	-	21.6	71.0	72.0	76.2	100.0	127.0	12	29.2	57.2	1.0
	55	146.0	93.7	-	21.6	73.0	74.0	84.1	111.1	130.2	16	29.2	57.2	1.0
	58	146.0	93.7	-	21.6	76.2	77.2	84.1	111.1	130.2	16	29.2	57.2	1.0
	60	152.4	100.0	-	21.6	79.4	80.4	90.5	117.5	136.5	16	29.2	57.2	1.0
	63	177.8	109.5	-	23.5	85.7	87.2	98.4	127.0	161.9	16	28.6	63.8	1.5
	65	177.8	109.5	-	23.5	88.9	90.4	98.4	127.0	161.9	16	28.6	63.8	1.5
	70	177.8	109.5	-	23.5	92.1	93.6	98.4	127.0	161.9	16	28.6	63.8	1.5
	75	190.5	125.4	-	23.5	98.5	100.0	114.3	142.9	173.0	16	28.6	63.8	1.5
	80	190.5	125.4	-	23.5	101.6	103.1	114.3	142.9	173.0	16	28.6	63.8	1.5
	85	203.2	135.0	-	23.5	108.0	109.5	123.7	152.4	185.7	16	28.6	63.8	1.5
CDP™	Sizes from 90mm upwards are the CDP™													
	90	215.9	150.8	127.0	19.6	114.3	115.8	127.0	171.5	195.2	20	31.8	60.3	1.5
	95	215.9	150.8	127.0	19.6	117.5	119.0	130.2	171.5	195.2	20	31.8	60.3	1.5
	100	228.6	168.3	136.5	19.6	123.9	125.4	139.7	188.9	207.9	20	31.8	60.3	1.5
	115	254.0	186.6	155.6	19.6	142.9	144.4	168.3	211.1	230.2	22	31.8	60.3	1.5
	120	254.0	186.6	155.6	19.6	142.9	144.4	168.3	211.1	230.2	22	31.8	60.3	1.5

† = F Min + K Max* For K Max explanation please refer to page 6

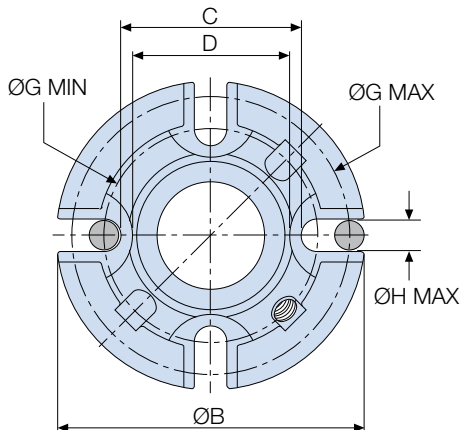
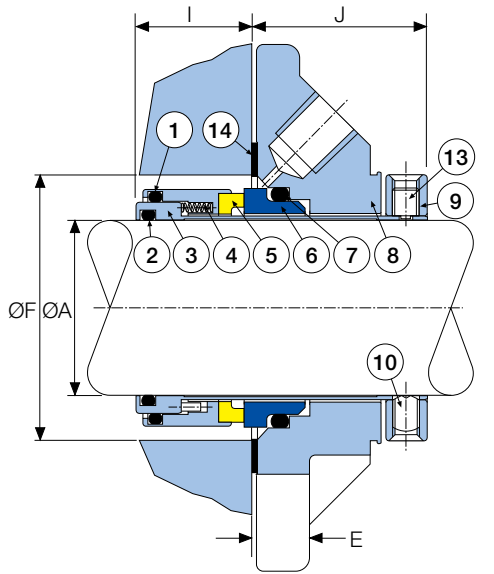
CDPN™ ANSI+ - Dimensional Information (inches)

Gland Choice	ØA	ØB	C	E	ØF Min	ØF Max	ØG Min	ØG Max	ØH Max	I	J	K Max*
	1.125	4.975	3.174	0.906	2.625	2.850	3.750	4.437	0.500	1.229	2.000	0.040
	1.375	5.328	3.413	0.898	2.875	3.100	4.000	4.812	0.500	1.250	2.000	0.040
	1.750	6.750	4.413	1.058	3.500	4.100	5.000	6.250	0.500	1.196	2.119	0.040
	1.875	6.750	4.413	1.058	3.625	4.100	5.000	6.250	0.500	1.196	2.119	0.040
	2.125	7.600	4.663	0.892	3.875	4.225	5.375	6.875	0.625	1.396	2.000	0.040
	2.500	8.250	5.413	1.137	4.500	5.100	6.125	7.562	0.625	1.451	2.187	0.060
	2.625	8.250	5.413	1.137	4.625	5.100	6.125	7.562	0.625	1.451	2.187	0.060
	2.750	8.250	5.413	1.137	4.625	5.100	6.125	7.562	0.625	1.451	2.187	0.060

*For K Max explanation please refer to page 6

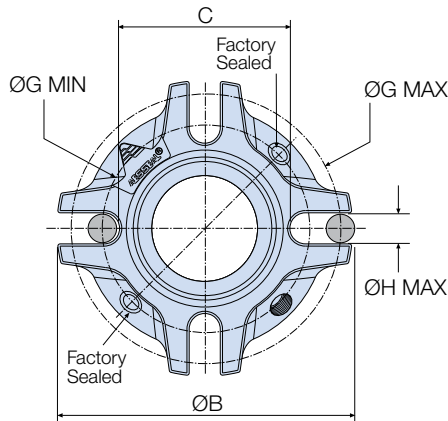
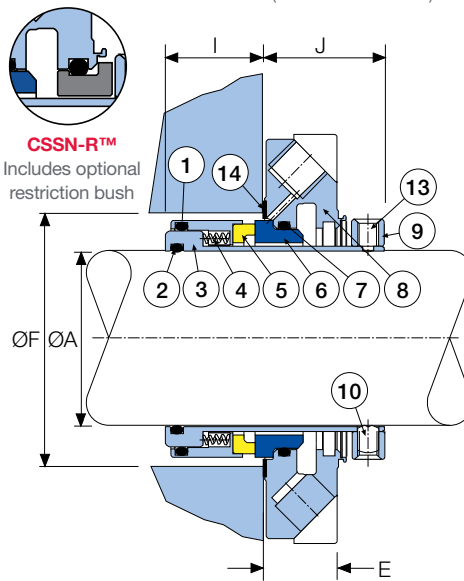
CSS™

3.625" to 4.750" (90mm - 120mm)

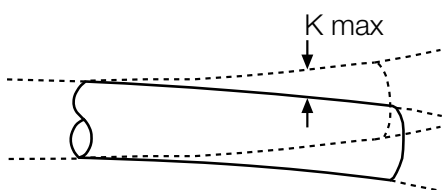
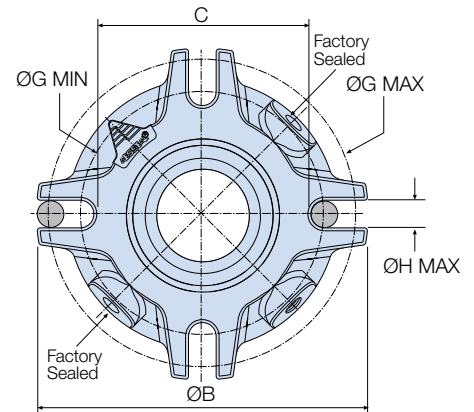
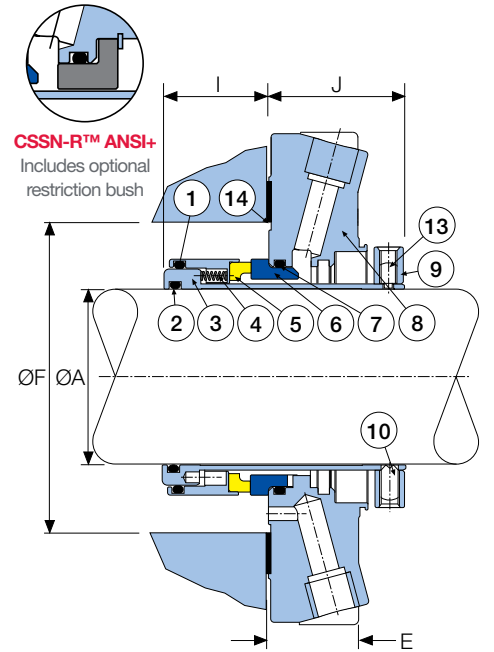


CSSN™

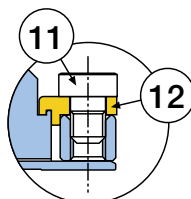
1.000" to 3.500" (24mm - 85mm)



CSSN™ ANSI+



K Max = MAXIMUM TOTAL
RADIAL MOVEMENT



Setting Clip
Details

Item	Description	Material
1	Rotary O Ring	FKM / EPR / FFKM / TFE/P
2	Sleeve O Ring	FKM / EPR / FFKM / TFE/P
3	Sleeve	316L Stainless Steel
4	Springs	Alloy 276
5	Rotary Face	316L SS - Carbon / TC / SiC
6	Stationary Face	TC / Ceramic† / SiC / 316L SS-Chr.Ox.*
7	Stationary O Ring	FKM / EPR / FFKM / TFE/P
8	Gland	316 Stainless Steel
9	Clamp Ring	316L Stainless Steel
10	Drive Screws	Stainless Steel
11	Clip Screws	Stainless Steel
12	Setting Clips	Hard Plastic / Brass
13	Anti-tamper Screws	Stainless Steel
14	Gasket	AF1 / GFT

All Port Connections are 1/4" NPT.

*This material is not available in sizes up to and including 5.500" (140mm).

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

CSS™ / CSSN™ & CSSN™ ANSI+ - Size Charts

CSS / CSSN™ - Dimensional Information (inches)

Gland Choice	ØA	ØB	C	D	E	ØF Min	ØF Min†	ØF Max	ØG Min	ØG Max	ØH Max	I	J	KMax
CSSN™	Sizes from 1.000" - 3.500" are the CSSN™													
	1.000	4.125	2.375	-	0.927	1.625	1.665	1.937	2.937	3.625	1/2	1.209	1.467	0.040
	1.125	4.250	2.375	-	0.927	1.750	1.790	2.062	2.937	3.750	1/2	1.209	1.467	0.040
	1.250	4.375	2.500	-	0.927	1.875	1.915	2.187	3.062	3.875	1/2	1.209	1.467	0.040
	1.375	4.375	2.625	-	0.927	2.000	2.040	2.312	3.186	3.875	1/2	1.209	1.467	0.040
	1.500	5.000	2.832	-	0.852	2.250	2.290	2.500	3.375	4.500	1/2	1.090	1.400	0.040
	1.625	5.000	2.832	-	0.852	2.375	2.415	2.500	3.375	4.500	1/2	1.090	1.400	0.040
	1.750	5.250	3.022	-	0.852	2.500	2.540	2.750	3.562	4.750	1/2	1.090	1.400	0.040
	1.875	5.250	3.022	-	0.852	2.625	2.665	2.750	3.562	4.750	1/2	1.090	1.400	0.040
	2.000	5.500	3.386	-	0.852	2.750	2.790	3.000	3.937	5.000	1/2	1.150	1.413	0.040
	2.125	5.750	3.687	-	0.852	2.875	2.915	3.312	4.375	5.125	5/8	1.150	1.413	0.040
	2.250	5.750	3.687	-	0.852	3.000	3.040	3.312	4.375	5.125	5/8	1.150	1.413	0.040
	2.375	6.000	3.937	-	0.852	3.125	3.165	3.562	4.625	5.375	5/8	1.150	1.413	0.040
	2.500	7.000	4.312	-	0.926	3.375	3.435	3.875	5.000	6.375	5/8	1.250	1.500	0.060
	2.625	7.000	4.312	-	0.926	3.500	3.560	3.875	5.000	6.375	5/8	1.250	1.500	0.060
	2.750	7.000	4.312	-	0.926	3.625	3.685	3.875	5.000	6.375	5/8	1.250	1.500	0.060
	2.875	7.500	4.937	-	0.926	3.750	3.810	4.500	5.625	6.812	5/8	1.250	1.500	0.060
	3.000	7.500	4.937	-	0.926	3.875	3.935	4.500	5.625	6.812	5/8	1.250	1.500	0.060
	3.125	7.500	4.937	-	0.926	4.000	4.060	4.500	5.625	6.812	5/8	1.250	1.500	0.060
	3.250	8.000	5.312	-	0.926	4.125	4.185	4.875	6.125	7.312	5/8	1.250	1.500	0.060
	3.375	8.000	5.312	-	0.926	4.250	4.310	4.875	6.125	7.312	5/8	1.250	1.500	0.060
	3.500	8.000	5.312	-	0.926	4.375	4.435	4.875	6.125	7.312	5/8	1.250	1.500	0.060
CSS™	Sizes from 3.625" upwards are the CSS™													
	3.625	8.500	5.937	5.000	0.769	4.500	4.560	5.000	6.750	7.687	3/4	1.250	1.937	0.060
	3.750	8.500	5.937	5.000	0.769	4.625	4.685	5.125	6.750	7.687	3/4	1.250	1.937	0.060
	3.875	8.500	5.937	5.000	0.769	4.750	4.810	5.250	6.750	7.687	3/4	1.250	1.937	0.060
	4.000	9.000	6.625	5.375	0.769	4.875	4.935	5.500	7.437	8.187	3/4	1.250	1.937	0.060
	4.125	9.000	6.625	5.375	0.769	5.125	5.185	5.875	7.437	8.187	3/4	1.250	1.937	0.060
	4.250	9.000	6.625	5.375	0.769	5.125	5.185	5.875	7.437	8.187	3/4	1.250	1.937	0.060
	4.375	9.500	7.000	5.750	0.769	5.375	5.435	6.250	7.812	8.687	3/4	1.250	1.937	0.060
	4.500	9.500	7.000	5.750	0.769	5.375	5.435	6.250	7.812	8.687	3/4	1.250	1.937	0.060
	4.625	10.000	7.345	6.125	0.769	5.625	5.685	6.625	8.312	9.062	7/8	1.250	1.937	0.060
	4.750	10.000	7.345	6.125	0.769	5.625	5.685	6.625	8.312	9.062	7/8	1.250	1.937	0.060

† = F Min + K Max

CSS / CSSN™ - Dimensional Information (mm)

Gland Choice	ØA	ØB	C	D	E	ØF Min	ØF Min†	ØF Max	ØG Min	ØG Max	ØH Max	I	J	K Max
CSSN™	Sizes from 24mm - 85mm are the CSSN™													
	24	104.8	60.3	-	23.5	40.0	41.0	46.0	74.6	92.0	12	30.7	37.3	1.0
	25	104.8	60.3	-	23.5	41.0	42.0	49.2	74.6	92.0	12	30.7	37.3	1.0
	28	108.0	60.3	-	23.5	44.0	45.0	52.4	74.6	95.3	12	30.7	37.3	1.0
	30	111.0	63.5	-	23.5	46.0	47.0	55.6	77.8	98.4	12	30.7	37.3	1.0
	32	111.0	63.5	-	23.5	48.0	49.0	55.6	77.8	98.4	12	30.7	37.3	1.0
	33	111.0	63.5	-	23.5	49.0	50.0	55.6	77.8	98.4	12	30.7	37.3	1.0
	35	111.0	66.7	-	23.5	50.8	51.8	58.7	80.9	98.4	12	30.7	37.3	1.0
	38	127.0	71.9	-	21.6	57.2	58.2	63.5	85.7	114.3	12	27.7	35.6	1.0
	40	127.0	71.9	-	21.6	57.2	58.2	63.5	85.7	114.3	12	27.7	35.6	1.0
	43	127.0	71.9	-	21.6	60.3	61.3	63.5	85.7	114.3	12	27.7	35.6	1.0
	45	133.4	76.7	-	21.6	63.5	64.5	69.8	90.5	120.7	12	27.7	35.6	1.0
	48	133.4	76.7	-	21.6	66.7	67.7	69.8	90.5	120.7	12	27.7	35.6	1.0
	50	133.4	76.7	-	21.6	68.0	69.0	69.8	90.5	120.7	12	27.7	35.6	1.0
	53	139.7	86.0	-	21.6	71.0	72.0	76.2	100.0	127.0	12	29.2	35.9	1.0
	55	146.0	93.7	-	21.6	73.0	74.0	84.1	111.1	130.2	16	29.2	35.9	1.0
	58	146.0	93.7	-	21.6	76.2	77.2	84.1	111.1	130.2	16	29.2	35.9	1.0
	60	152.4	100.0	-	21.6	79.4	80.4	90.5	117.5	136.5	16	29.2	35.9	1.0
	63	177.8	109.5	-	23.5	85.7	87.2	98.4	127.0	161.9	16	31.8	38.1	1.5
	65	177.8	109.5	-	23.5	88.9	90.4	98.4	127.0	161.9	16	31.8	38.1	1.5
	70	177.8	109.5	-	23.5	92.1	93.6	98.4	127.0	161.9	16	31.8	38.1	1.5
	75	190.5	125.4	-	23.5	98.5	100.0	114.3	142.9	173.0	16	31.8	38.1	1.5
	80	190.5	125.4	-	23.5	101.6	103.1	114.3	142.9	173.0	16	31.8	38.1	1.5
	85	203.2	135.0	-	23.5	108.0	109.5	123.7	152.4	185.7	16	31.8	38.1	1.5
CSS™	Sizes from 90mm upwards are the CSS™													
	90	215.9	150.8	127.0	19.6	114.3	115.8	127.0	171.5	195.2	20	31.8	49.2	1.5
	95	215.9	150.8	127.0	19.6	117.5	119.0	130.2	171.5	195.2	20	31.8	49.2	1.5
	100	228.6	168.3	136.5	19.6	123.9	125.4	139.7	188.9	207.9	20	31.8	49.2	1.5
	105	228.6	168.3	136.5	19.6	130.1	131.6	149.2	189.0	208.0	20	31.8	49.2	1.5
	110	241.3	177.8	146.1	19.6	136.5	138.0	158.8	198.4	220.6	20	31.8	49.2	1.5
	115	254.0	186.6	155.6	19.6	142.9	144.4	168.3	211.1	230.2	22	31.8	49.2	1.5
	120	254.0	186.6	155.6	19.6	142.9	144.4	168.3	211.1	230.2	22	31.8	49.2	1.5

† = F Min + K Max

CSSN™ ANSI+ - Dimensional Information (inches)

Gland Choice	ØA	ØB	C	E	ØF Min	ØF Max	ØG Min	ØG Max	ØH Max	I	J	K Max
	1.125	4.975	3.174	0.906	2.625	2.850	3.750	4.437	0.500	1.229	1.450	0.040
	1.375	5.328	3.413	0.898	2.875	3.100	4.000	4.812	0.500	1.250	1.438	0.040
	1.750	6.750	4.413	1.058	3.500	4.100	5.000	6.250	0.500	1.196	1.601	0.040
	1.875	6.750	4.413	1.058	3.625	4.100	5.000	6.250	0.500	1.196	1.601	0.040
	2.125	7.600	4.663	0.892	3.875	4.225	5.375	6.875	0.625	1.396	1.459	0.040
	2.500	8.250	5.413	1.137	4.500	5.100	6.125	7.562	0.625	1.451	1.675	0.060
	2.625	8.250	5.413	1.137	4.625	5.100	6.125	7.562	0.625	1.451	1.675	0.060
	2.750	8.250	5.413	1.137	4.625	5.100	6.125	7.562	0.625	1.451	1.675	0.060

SMSS™ & DMSF™ - Single and Double Monolithic Designs

The CSSN™ and CDPN™ range of cartridge mechanical seals is complemented by the high performance SMSS™ and DMSF™ monolithic designs.

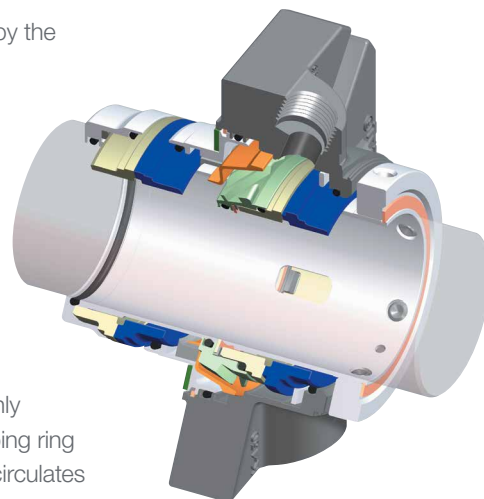
Available from 1.000" to 6.000" (24mm to 150mm), the patented DMSF™ stationary design includes double balanced seal faces designed to withstand barrier and process pressure fluctuations.

The SMSS™ has two flush ports, positioned directly over the seal faces, providing the option of tangential flushing irrespective of shaft rotational direction.



The DMSF™ is supplied with a highly efficient integral bi-directional pumping ring and deflector arrangement, which circulates and directs barrier fluid to the critical places within the seal.

Both SMSS™ and DMSF™ products employ modular components, thereby increasing availability and reducing product lead time.



Environmental Control Systems For Double Seals

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SWFF-TF™



FLOWTRUE™



AES-15™



PUMPPAC™

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UK Sales & Technical advice:

AESSEAL plc
Mill Close
Bradmarsh Business Park
Rotherham,
S60 1BZ, UK
Tel: +44 (0) 1709 369966
E-mail: enquiries@aes seal.info
www.aes seal.com

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USA Sales & Technical advice:

AESSEAL Inc.
355 Dunavant Drive
Rockford,
TN. 37853,
USA
Tel: +1 865 531 0192
E-mail: usa@aes seal.com
www.aes seal.com

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