

CDFITM / CDFCTM

Cartridge Double Flow Induction / Convection



- Patent pending design
- Integral bi-directional flow inducer
- Directed barrier fluid circulation
- Fits on pumps with thin radial cross sectional spaces

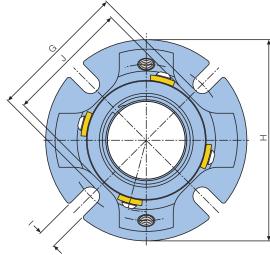
CDFI™ / CDFC™ - better by design

The AESSEAL® CDFI™ / CDFC™ is an innovative modular adaptation of the BDFI™ / BDFC™.

The CDFI™ / CDFC™ bridges the product range gap between the FIDC™ and DMSF™ differentiating itself in two areas. The hybrid design offers a metal-to-metal inboard drive and an integral bi-directional pumping device, allowing the seal to fit in radial cross sectional spaces as small as 0.312" (8mm).

The CDFI™ / CDFC™ is available in any AESSEAL® standard seal face and elastomer combination.

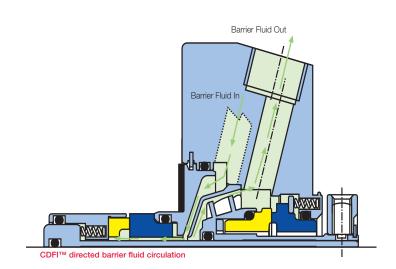




Directed Barrier Fluid Circulation

Removing the heat at the inboard faces is critical for any double mechanical seal.

The CDFI™ / CDFC™ directed barrier fluid flow path achieves effective heat removal at both sets of seal faces.



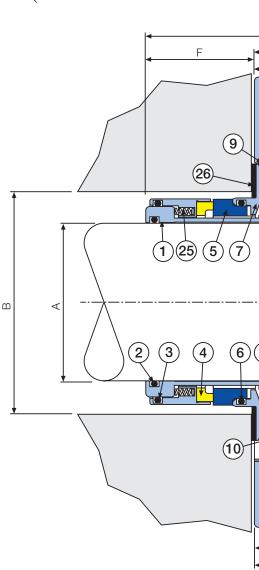
Bi-directional Barrier Fluid Circulation

Developed using the highly efficient patented DMSF™ pumping ring the CDFI™ will effectively and reliably circulate barrier fluid irrespective of the direction of shaft rotation.

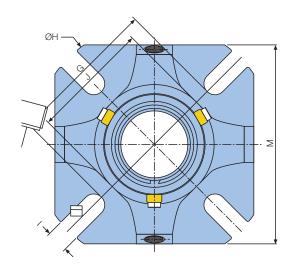
Alternatively, in applications which use an external barrier fluid circulation device, such as a PUMPPAC $^{\text{TM}}$, or where fluid convection is required, the CDFC $^{\text{TM}}$ may be offered.

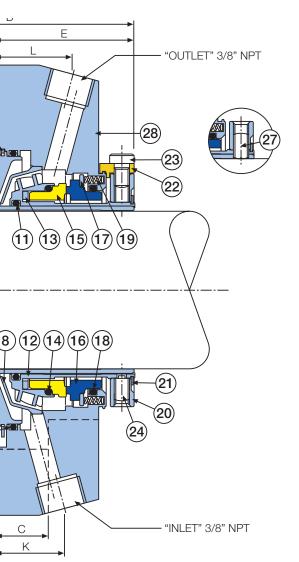
Fits in Thin Radial Cross Sectional Spaces

Like the FIDC $^{\text{TM}}$, the CDFI $^{\text{TM}}$ / CDFC $^{\text{TM}}$ can be installed on equipment with radial cross sectional spaces as small as 0.312" (8mm). This is typical on some smaller sized process pumps.



CDFI™ / CDFC™ - dimensional information





Important - some glands are manufactured from castings and therefore the angle and position of the port should be checked. If in doubt, please contact the AESSEAL® Technical Department.

Standard ISO / ANSI Box Bore 28.0mm - 65mm (1.125" - 2.625")

А	B Min	B Max	С	D	E	F	G	н	ı	J	K	L
28.0	44.0	52.0	19.1	90.0	52.4	37.6	62.2	111.1	14.0	57.2	20.6	28.6
35.0	51.0	60.3	19.1	90.0	52.4	37.6	71.8	104.1	14.0	67.0	20.6	28.6
45.0	63.5	73.0	19.1	92.8	53.1	39.7	83.8	139.1	14.0	75.7	31.5	33.0
55.0	74.0	90.5	22.2	94.4	53.1	41.3	100.3	150.0	17.5	86.6	25.3	29.0
60.0	79.4	95.0	19.1	94.4	53.1	41.3	108.7	170.8	17.5	94.4	26.5	29.7
63.0	85.8	95.0	19.1	95.5	53.1	42.4	108.7	170.8	17.5	94.4	31.5	33.0
65.0	88.9	98.0	19.1	95.5	53.1	42.4	111.9	180.3	17.5	98.3	31.5	33.0
1.125	1.750	2.062	0.750	3.546	2.062	1.484	2.449	4.375	0.551	2.250	0.812	1.125
1.375	2.000	2.375	0.750	3.546	2.062	1.484	2.827	4.100	0.551	2.638	0.812	1.125
1.750	2.500	2.875	0.750	3.653	2.091	1.562	3.297	5.475	0.551	2.982	1.240	1.299
1.875	2.625	3.000	0.750	3.653	2.091	1.562	3.450	5.906	0.689	3.108	1.240	1.299
1.875-D	2.625	2.875	0.800	3.653	2.091	1.562	3.325	4.875	0.472	3.025	1.150	1.150
2.125	2.875	3.562	0.875	3.716	2.091	1.625	3.950	5.906	0.689	3.408	0.995	1.140
2.375	3.125	3.750	0.750	3.716	2.091	1.625	4.280	6.725	0.689	3.716	1.043	1.170
2.500	3.375	3.750	0.750	3.761	2.091	1.670	4.280	6.725	0.689	3.716	1.240	1.299
2.625	3.500	3.875	0.750	3.761	2.091	1.670	4.405	7.100	0.689	3.871	1.240	1.299

Standard ISO / ANSI Box Bore 75.0mm - 100mm (2.750" - 4.000")

Α	B Min	В Мах	С	D	E	F	G	н	1	J	K	L
75.0	98.5	117.4	23.8	106	63.5	42.5	131.4	189.2	17.5	116.5	36.0	40.1
80.0	101.6	127.0	23.8	106	63.5	42.5	142.5	201.9	21.0	126.0	36.0	40.1
85.0	108.0	127.0	23.8	106	63.5	42.5	142.5	201.9	21.0	126.0	36.0	40.1
90.0	114.3	136.5	23.8	106	63.5	42.5	152.0	214.6	21.0	135.5	36.0	40.1
95.0	117.5	139.7	23.8	106	63.5	42.5	155.2	227.3	21.0	138.7	36.0	40.1
100.0	123.9	152.4	23.8	106	63.5	42.5	167.9	240.0	21.0	151.4	36.0	40.1
2.750	3.625	4.625	0.937	4.170	2.500	1.670	5.173	7.450	0.689	4.585	1.418	1.578
2.875	3.750	4.625	0.937	4.170	2.500	1.670	5.173	7.450	0.689	4.585	1.418	1.578
3.000	3.875	4.625	0.937	4.170	2.500	1.670	5.173	7.450	0.689	4.585	1.418	1.578
3.125	4.000	5.000	0.937	4.170	2.500	1.670	5.610	7.950	0.827	4.960	1.418	1.578
3.250	4.125	5.000	0.937	4.170	2.500	1.670	5.610	7.950	0.827	4.960	1.418	1.578
3.375	4.250	5.000	0.937	4.170	2.500	1.670	5.610	7.950	0.827	4.960	1.418	1.578
3.500	4.375	5.375	0.937	4.170	2.500	1.670	5.985	8.450	0.827	5.335	1.418	1.578
3.625	4.500	5.375	0.937	4.170	2.500	1.670	5.985	8.450	0.827	5.335	1.418	1.578
3.750	4.625	5.500	0.937	4.170	2.500	1.670	6.110	8.950	0.827	5.460	1.418	1.578
3.875	4.750	5.500	0.937	4.170	2.500	1.670	6.110	8.950	0.827	5.460	1.418	1.578
4.000	4.875	6.000	0.937	4.170	2.500	1.670	6.610	9.450	0.827	5.960	1.418	1.578

Large ISO / ANSI Plus Box Bore

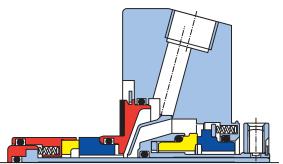
Α	B Min	В Мах	С	D	E	F	G	н	1	J	K	L	М
1.125	2.625	2.750	0.750	3.546	2.062	1.484	3.199	5.000	0.551	2.323	1.125	1.125	3.990
1.375	2.875	3.062	0.750	3.546	2.062	1.484	3.449	5.375	0.551	2.638	1.125	1.125	4.250
1.750	3.500	4.000	0.790	3.653	2.000	1.653	4.449	6.750	0.551	3.100	1.087	1.087	5.480
1.875	3.500	4.000	0.619	3.653	2.000	1.653	4.449	6.750	0.551	3.500	1.087	1.087	5.480
2.125	3.875	4.187	0.669	3.716	2.000	1.716	4.661	7.600	0.689	3.715	1.125	1.125	6.205
2.500	4.500	4.812	0.760	3.761	2.091	1.670	5.411	8.225	0.689	4.525	1.231	1.231	6.705
2.625	4.500	4.812	0.760	3.761	2.091	1.670	5.411	8.225	0.689	4.525	1.093	1.093	6.705

Item	Description	Material
1	Sleeve	316L SS
2	Sleeve O Ring	AES-ELAST / EPR / FFKM / FKM / TFE/P
3	Rotary O Ring	AES-ELAST / EPR / FFKM / FKM / TFE/P
4	Rotary Face	316L SS - Carbon / TC / SiC / Ant Car
5	Stationary Face	316L SS-CrOx / SiC / TC / Ceramic
6	Stationary O Ring	AES-ELAST / EPR / FFKM / FKM / TFE/P
7	Gland Insert	316L Stainless Steel
8	Deflector	316L Stainless Steel
9	Snap Ring	Stainless Steel
10	Gland Insert O Ring	AES-ELAST / EPR / FFKM / FKM / TFE/P
11	Rotary Holder O Ring	AES-ELAST / EPR / FFKM / FKM / TFE/P
12	Rotary Holder	316 Stainless Steel
13	Drive Ring	316L Stainless Steel
14	Rotary O Ring	AES-ELAST / EPR / FFKM / FKM / TFE/P
15	Rotary Face	SiC / TC
16	Stationary Face	Carbon / SiC / TC / Ant Car
17	Spring Plate	316L Stainless Steel
18	Stationary O Ring	AES-ELAST / EPR / FFKM / FKM / TFE/P
19	Springs	Alloy 276
20	Clamp Ring	316L Stainless Steel
21	Circlip	Stainless Steel
22	Settings Clips	Brass
23	Setting Clip Screws	Stainless Steel
24	Anti Tamper Screws	Stainless Steel
25	Springs	Alloy 276
26	Gasket	AF1 / GFT
27	Drive Screws	Stainless Steel
28	Gland	316 Stainless Steel

Contact AESSEAL® Technical Department for dimensional information of seal sizes not shown.

Check availability as only a limited size range is inventoried.

CDFI™ / BDFI™ - modularity at its best



Exotic Alloy CDFC™ - Cartridge Double Flow Convection

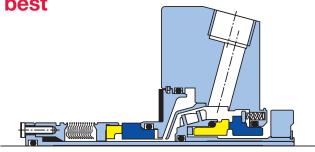
Exotic alloy wetted options

The CDFI™ / CDFC™ is available in a wide range of exotic alloy wetted materials including Alloy 276, Alloy 20, Titanium, Alloy 400 and Alloy 255. The design utilizes the modular Patented Bi-Metal design of the exotic FIDC™.

Like all AESSEAL® products, modularity is key to providing service at an affordable price.

EXOTIC ALLOY SEALS

Contact AESSEAL® for availability of Exotic Alloy options.



BDFI™ - Bellows Double Flow Induced

The BDFI™ and BDFC™ are sister products to the CDFI™ and CDFC™.

The BDFI™ / BDFC™ offer the advantage of an inboard metal bellows unit available in any AESSEAL® standard metal bellows material and seal face combination including SHS, HHH and SAC with Carbon, Antimony Carbon, TC or SiC seal

This inboard bellows design is ideal to replace the semidynamic rotary elastomer in some chemical or thermal applications. See the BDFI™ / BDFC™ literature for further information. You can download this and other information from www.aesseal.com or request it from marketing@aesseal.com

In addition to a vast range of mechanical seals, AESSEAL® also has a comprehensive range of seal support systems and bearing protection devices for all your sealing needs. The AESSEAL® Support Systems offering ranges from the FLOWTRUETM flow meter device, to the SWFF-TFTM thermosyphon system, the high pressure AES-15 system and the PUMPPAC™ forced circulation system.



SWFF-TF™



FLOWTRUE™





PUMPPAC™

The systems above are compatible with a wide selection of barrier and buffer fluid media. They are supplied pre-assembled with all necessary components and fittings. On site inventory costs are reduced by modular system construction.



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Use double mechanical

. Guard your equipment · Wear protective clothing

seals with hazardous products.

Always take safety

For further information and safe operating limits contact our technical specialists at the locations below.



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AESSEAL plc is certified to:

ISO 9001, ISO 14001, ISO/IEC 20000, ISO/IEC 27001, ISO/TS 29001, ISO 37001, ISO 45001 & ISO 50001















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