AESSEAL®

ENVIRONMENTAL TECHNOLOGY

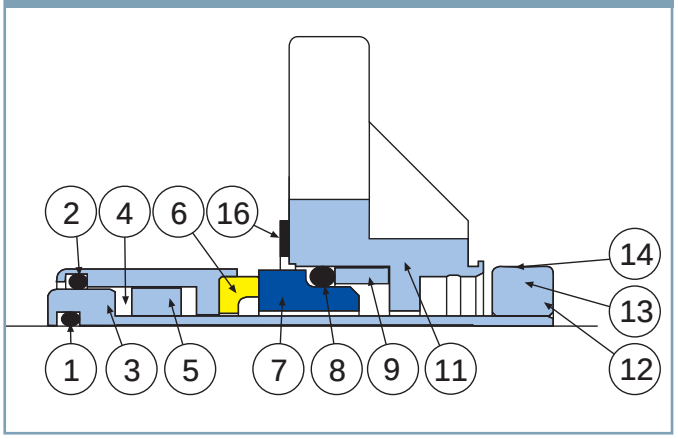
CMAX™

Cartridge Single Seal with Axial Movement

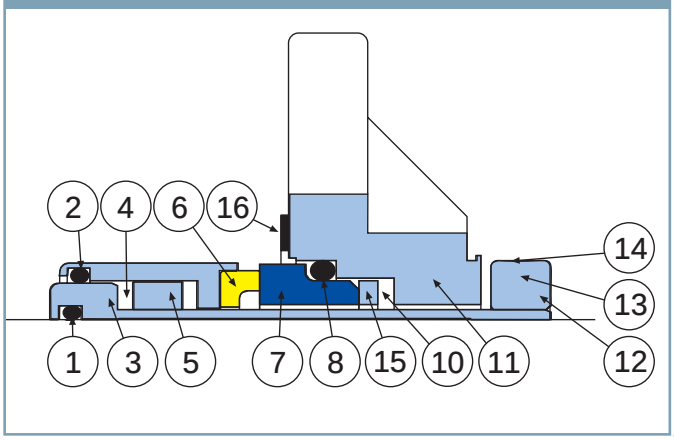
- ACCEPTS UP TO 0.315” (8.0mm) AXIAL SHAFT GROWTH DUE TO THERMAL CONDITIONS
- BALANCED SEAL FACES
- EASY TO INSTALL
- MODERN USER-FRIENDLY DESIGN
- EXCELLENT GENERAL SERVICE SEAL

worldpump.net

CMAX™ TYPE 'A'



CMAX™ TYPE 'B'



Item	Description	Material
1	Static O Ring	Viton® / EPR/ Aflas® / Kalrez®
2	Dynamic O Ring	Viton / EPR / Kalrez / Aflas
3	Cartridge Sleeve	316L Stainless Steel
4	Springs	Alloy 276
5	Rotary Spring Plate	316L Stainless Steel
6	Rotary Face	316L SS - Carbon / TC / SiC*
7	Stationary Face	TC / Ceramic / SiC / 316L SS-Chr.Ox.**
8	Dynamic O Ring	Viton / EPR / Kalrez / Aflas
9	Spacer Ring (Type A only)	316L Stainless Steel
10	Springs (Type B only)	Alloy 276
11	Gland	316 Stainless Steel
12	Clamp Ring	316L Stainless Steel
13	Drive Screws (not shown)	Stainless Steel
14	Clips & Clipscrews (not shown)	Metal - Stainless Steel
15	Stat. Spring Plate (Type B only)	316L Stainless Steel
16	Gasket	GFT

*This material is not available in some sizes above 4.000" (100mm).
**This material is not available from 0.000" to 2.125" (53mm).

STANDARD CMAX™ RANGE DIMENSIONAL DATA

IMPERIAL (INCH) SIZE RANGE DIMENSIONAL DATA

Seal Size	Gland O/D	Axial Movement TYPE 'A'	Axial Movement TYPE 'B'	Gland Thickness	Stuffing Box Min	Stuffing Box Max	Bolt Circle Dia Min	Bolt Circle Dia Max	Max Bolt Dia	Seal Length Inboard	Seal Length Outboard
1.000	4.125	0.134	0.201	0.519	1.625	1.937	2.687	3.562	1/2	1.500	1.690
1.125	4.250	0.134	0.201	0.519	1.750	2.062	2.812	3.687	1/2	1.500	1.690
1.250	4.375	0.134	0.201	0.519	1.875	2.187	2.937	3.812	1/2	1.500	1.690
1.375	4.375	0.134	0.201	0.519	2.000	2.250	3.062	3.812	1/2	1.500	1.690
1.500	5.000	0.134	0.201	0.644	2.250	2.375	3.375	4.437	1/2	1.500	1.815
1.625	5.000	0.134	0.201	0.644	2.375	2.500	3.375	4.437	1/2	1.500	1.815
1.750	5.500	0.134	0.201	0.644	2.500	2.750	3.750	4.937	1/2	1.500	1.815
1.875	5.500	0.134	0.201	0.644	2.625	2.875	3.750	4.937	1/2	1.500	1.815
2.000	6.000	0.134	0.201	0.644	2.750	3.000	4.125	5.437	1/2	1.500	1.815
2.000-AC	5.250	0.134	0.201	0.644	2.750	3.000	4.000	4.750	1/2	1.500	1.815
2.125	6.000	0.134	0.201	0.644	2.875	3.125	4.125	5.437	1/2	1.500	1.815
2.250	6.500	0.134	0.201	0.644	3.000	3.250	4.500	5.812	5/8	1.500	1.815
2.375	6.500	0.134	0.201	0.644	3.125	3.375	4.500	5.812	5/8	1.500	1.815
2.500	7.000	0.210	0.315	0.769	3.375	3.625	5.000	6.312	5/8	2.125	2.065
2.625	7.000	0.210	0.315	0.769	3.500	3.750	5.000	6.312	5/8	2.125	2.065
2.750	7.000	0.210	0.315	0.769	3.625	3.875	5.000	6.312	5/8	2.125	2.065
2.875	7.500	0.210	0.315	0.769	3.750	4.125	5.625	6.812	5/8	2.125	2.065
3.000	7.500	0.210	0.315	0.769	3.875	4.250	5.625	6.812	5/8	2.125	2.065
3.125	7.500	0.210	0.315	0.769	4.000	4.375	5.625	6.812	5/8	2.125	2.065
3.250	8.000	0.210	0.315	0.769	4.125	4.500	6.125	7.187	3/4	2.125	2.065
3.375	8.000	0.210	0.315	0.769	4.250	4.625	6.125	7.187	3/4	2.125	2.065
3.500	8.000	0.210	0.315	0.769	4.375	4.750	6.125	7.187	3/4	2.125	2.065
3.625	8.500	0.210	0.315	0.769	4.500	5.000	6.750	7.687	3/4	2.125	2.065
3.750	8.500	0.210	0.315	0.769	4.625	5.125	6.750	7.687	3/4	2.125	2.065
3.875	8.500	0.210	0.315	0.769	4.750	5.250	6.750	7.687	3/4	2.125	2.065
4.000	9.000	0.210	0.315	0.769	4.875	5.500	7.437	8.187	3/4	2.125	2.065
4.125	9.000	0.210	0.315	0.769	5.125	5.875	7.437	8.187	3/4	2.125	2.065
4.250	9.000	0.210	0.315	0.769	5.125	5.875	7.437	8.187	3/4	2.125	2.065
4.375	9.500	0.210	0.315	0.769	5.375	6.250	7.812	8.687	3/4	2.125	2.065
4.500	9.500	0.210	0.315	0.769	5.375	6.250	7.812	8.687	3/4	2.125	2.065
4.625	10.000	0.210	0.315	0.769	5.625	6.625	8.312	9.062	7/8	2.125	2.065
4.750	10.000	0.210	0.315	0.769	5.625	6.625	8.312	9.062	7/8	2.125	2.065
4.875	10.000	0.210	0.315	0.769	5.875	6.625	8.312	9.062	7/8	2.125	2.065
5.000	10.000	0.210	0.315	0.769	5.875	6.625	8.312	9.062	7/8	2.125	2.065

AC = Designed to Suit the Allis Chalmers CSO Pump.

INBOARD & OUTBOARD LENGTHS QUOTED ARE WHEN SEAL IS SET AT MID POSITION

STANDARD CMAX™ RANGE DIMENSIONAL DATA

METRIC (MM) SIZE RANGE DIMENSIONAL DATA

Seal Size	Gland O/D	Axial Movement TYPE 'A'	Axial Movement TYPE 'B'	Gland Thickness	Stuffing Box Min	Stuffing Box Max	Bolt Circle Dia Min	Bolt Circle Dia Max	Max Bolt Dia	Seal Length Inboard	Seal Length Outboard
24	104.8	3.4	5.0	13.2	40.0	46.0	67.0	90.5	12	38.1	43.0
25	104.8	3.4	5.0	13.2	41.0	49.0	67.0	90.5	12	38.1	43.0
28	108.0	3.4	5.0	13.2	44.0	52.3	70.3	93.6	12	38.1	43.0
30	111.0	3.4	5.0	13.2	46.0	55.5	73.5	96.8	12	38.1	43.0
32	111.0	3.4	5.0	13.2	48.0	55.5	73.5	96.8	12	38.1	43.0
33	111.0	3.4	5.0	13.2	49.0	55.5	73.5	96.8	12	38.1	43.0
35	111.0	3.4	5.0	13.2	51.0	57.5	76.6	96.8	12	38.1	43.0
38	127.0	3.4	5.0	16.4	57.2	60.4	85.7	114.3	12	38.1	46.1
40	127.0	3.4	5.0	16.4	58.0	60.4	85.7	114.3	12	38.1	46.1
43	139.7	3.4	5.0	16.4	61.0	69.9	95.3	127.0	12	38.1	46.1
45	139.7	3.4	5.0	16.4	63.5	69.9	95.3	127.0	12	38.1	46.1
48	139.7	3.4	5.0	16.4	66.7	73.0	95.3	127.0	12	38.1	46.1
50	152.4	3.4	5.0	16.4	68.0	76.2	104.8	139.7	12	38.1	46.1
53	152.4	3.4	5.0	16.4	71.0	76.2	104.8	139.7	12	38.1	46.1
55	165.1	3.4	5.0	16.4	74.0	82.5	114.3	149.2	16	38.1	46.1
58	165.1	3.4	5.0	16.4	76.2	82.6	114.3	149.2	16	38.1	46.1
60	165.1	3.4	5.0	16.4	79.4	85.7	114.3	149.2	16	38.1	46.1
63	177.8	5.3	8.0	19.6	85.8	92.1	127.0	160.3	16	54.0	52.5
65	177.8	5.3	8.0	19.6	88.9	95.3	127.0	160.3	16	54.0	52.5
68	177.8	5.3	8.0	19.6	92.1	98.4	127.0	160.3	16	54.0	52.5
70	177.8	5.3	8.0	19.6	92.1	98.4	127.0	160.3	16	54.0	52.5
75	190.5	5.3	8.0	19.6	98.5	108.0	142.9	173.0	16	54.0	52.5
80	190.5	5.3	8.0	19.6	101.6	111.1	142.9	173.0	16	54.0	52.5
85	203.2	5.3	8.0	19.6	108.0	117.5	155.6	182.5	20	54.0	52.5
90	215.9	5.3	8.0	19.6	114.3	127.0	171.5	195.2	20	54.0	52.5
95	215.9	5.3	8.0	19.6	117.5	130.2	171.5	195.2	20	54.0	52.5
100	228.6	5.3	8.0	19.6	123.9	139.7	188.9	207.9	20	54.0	52.5
105	228.6	5.3	8.0	19.6	130.1	149.2	189.0	208.0	20	54.0	52.5
110	241.3	5.3	8.0	19.6	136.5	158.8	198.4	220.6	20	54.0	52.5
115	254.0	5.3	8.0	19.6	142.9	168.3	211.1	230.2	22	54.0	52.5
120	254.0	5.3	8.0	19.6	142.9	168.3	211.1	230.2	22	54.0	52.5
125	254.0	5.3	8.0	19.6	142.9	168.3	211.1	230.2	22	54.0	52.5

INBOARD & OUTBOARD LENGTHS QUOTED ARE WHEN SEAL IS SET AT MID POSITION

THIS DOCUMENT IS DESIGNED TO PROVIDE DIMENSIONAL INFORMATION AND AN INDICATION OF AVAILABILITY.
FOR FURTHER INFORMATION AND SAFE OPERATING LIMITS CONTACT OUR TECHNICAL SPECIALISTS AT THE LOCATIONS BELOW.

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LLOYD'S REGISTER QUALITY ASSURANCE · ISO9001 · UKAS QUALITY MANAGEMENT 001

THE QUEEN'S AWARDS FOR ENTERPRISE: INTERNATIONAL TRADE 2002

THE QUEEN'S AWARDS FOR ENTERPRISE: INNOVATION 2004

INVESTOR IN PEOPLE

USE DOUBLE MECHANICAL SEALS WITH HAZARDOUS PRODUCTS. ALWAYS TAKE SAFETY PRECAUTIONS:

- **GUARD YOUR EQUIPMENT**
- **WEAR PROTECTIVE CLOTHING**

WARNING

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