

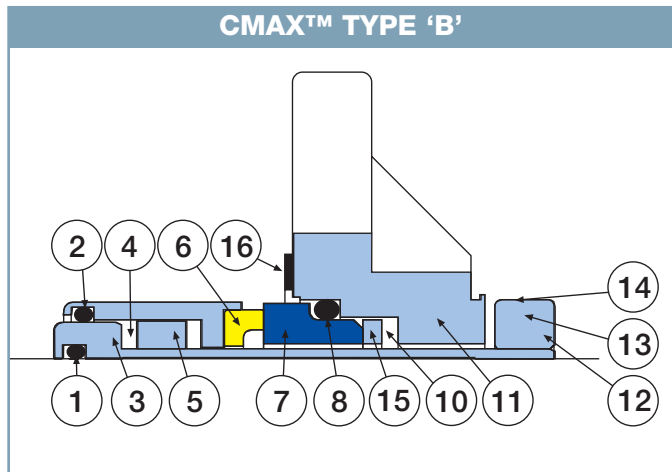
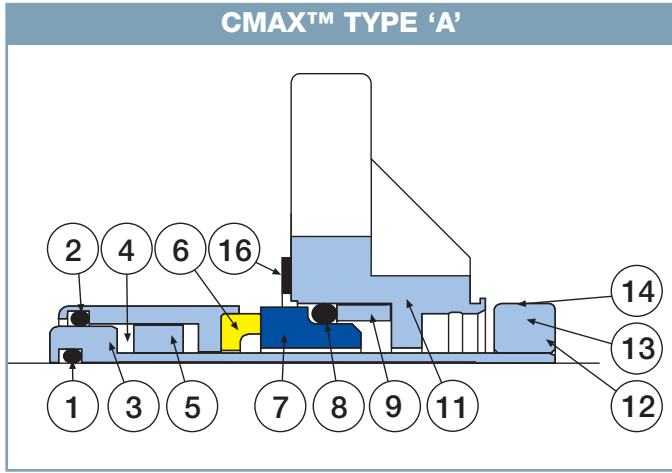


ENVIRONMENTAL TECHNOLOGY

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**



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		Gland Thickness	Stuffing Box		Bolt Circle Dia		Max Bolt Dia	Seal Length	
		TYPE 'A'	TYPE 'B'		Min	Max	Min	Max	Inboard	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		Gland Thickness	Stuffing Box		Bolt Circle Dia		Max Bolt Dia	Seal Length	
		TYPE 'A'	TYPE 'B'		Min	Max	Min	Max	Inboard	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
44	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.



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

- GUARD YOUR EQUIPMENT
- WEAR PROTECTIVE CLOTHING



UK Sales & Technical advice:
 AESSEAL plc
 Mill Close
 Templeborough
 Rotherham
 S60 1BZ
 United Kingdom
 Telephone: +44 (0) 1709 369966
 Fax: +44 (0) 1709 720788
 E-mail: seals@aes seal.com
 Internet: http://www.aes seal.com

Distributed by:

USA Sales & Technical advice:
 AESSEAL Inc.
 10231 Cogdill Road
 Suite 105
 Knoxville, TN 37932
 USA
 Telephone: +1 865 531 0192
 Fax: +1 865 531 0571
 E-mail: usa@aes seal.com

Systems Sales & Technical advice:
 AESSEAL (MCK) Ltd.
 139A Hillsborough Old Road
 Lisburn
 N.Ireland
 BT27 5QE
 Telephone: +44 (0) 28 9266 9966
 Fax: +44 (0) 28 9266 9977
 Tel/Fax Hotline: +44 (0) 28 9266 9988
 E-mail: MCK@aes seal.com