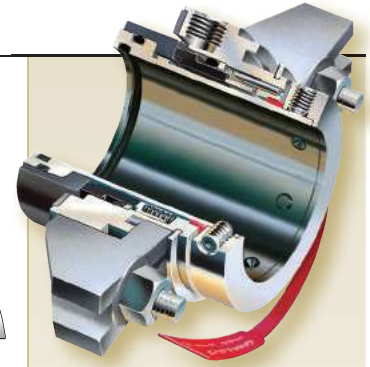
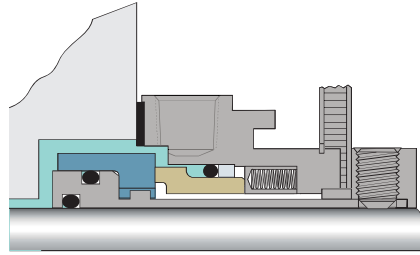


CARTRIDGE SEALS

155™

Standard Single Cartridge Seal

A single seal designed for plant-wide flexibility and ease of use



Operating Conditions		Materials	
Size	25 mm – 120 mm (1.000" – 4.750")	Faces	CB, SSC, TC
Pressure	711 mm (28") Hg Vacuum – 40 bar g (600 psig)*	Elastomers	FKM, EPDM, FEPM, FFKM
Temperature	-55°C – 300°C (-67°F – 570°F)	Metals	EN 1.4401 (316SS)
Speed	25 m/s (5000 fpm)	Springs	EN 2.4819 (Alloy C-276)

Standards and Approvals: ISO-3069C, ASME B73.1, ASME B73.2, NSF61

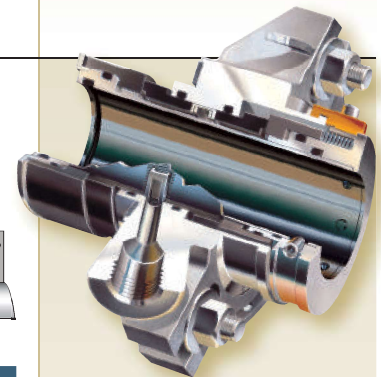
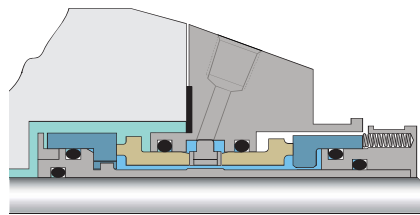
* Seal pressure capabilities are dependent on the fluid sealed, temperature, speed, and seal face combinations. For operation outside the limits and additional materials consult Chesterton Mechanical Seal Engineering.

- Adjustable/removable gland tabs
- 360 degree flush port rotation
- Quick release centering strap
- Available in special alloys
- Reliable sealing for a broad range of fluids
- Dynamically stress relieved narrow profile faces
- Low heat generation monolithic faces
- Self-Centering Lock Ring eliminates misalignment
- Stationary springs

255™

Standard Double Cartridge Seal

A proven design and versatile performer providing reliable double sealing capability in a wide variety of process and barrier fluids



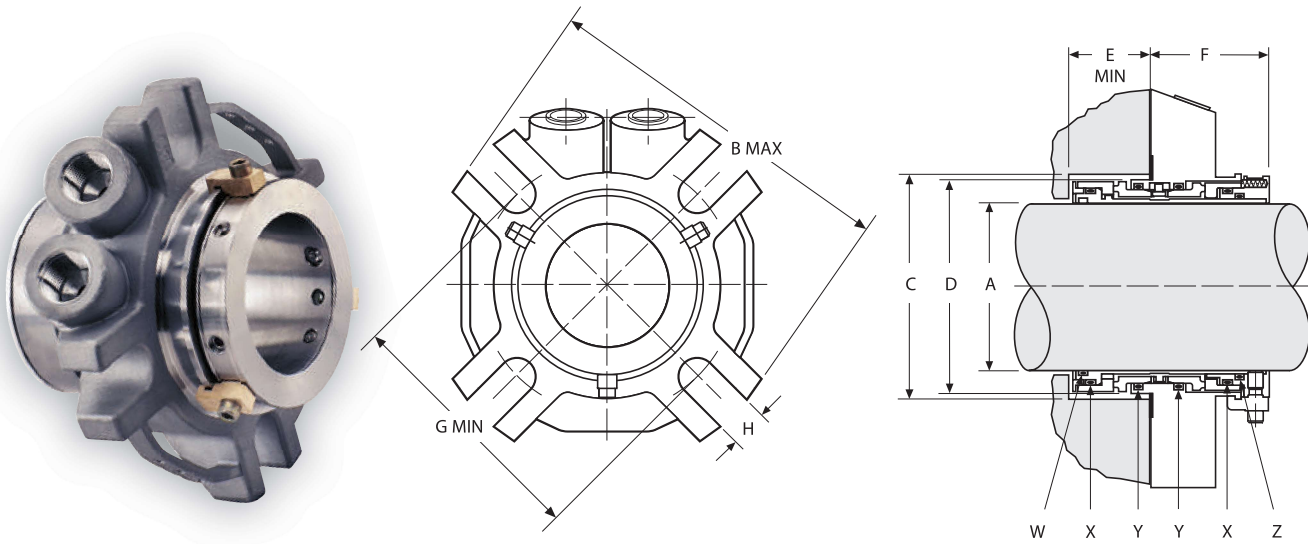
Operating Conditions		Materials	
Size	25 mm – 120 mm (1.000" – 4.750")	Faces	CB, SSC, TC
Pressure	711 mm (28") Hg Vacuum – 40 bar g (600 psig)* 17 bar g (250 psig) outboard*	Elastomers	FKM, EPDM, FEPM, FFKM
Temperature	-55°C – 300°C (-67°F – 570°F)	Metals	EN 1.4401 (316SS)
Speed	20 m/s (4000 fpm)	Springs	EN 2.4819 (Alloy C-276)

Standards and Approvals: ISO-3069C, ASME B73.1, ASME B73.2

* Seal pressure capabilities are dependent on the fluid sealed, temperature, speed, and seal face combinations. For operation outside the limits and additional materials consult Chesterton Mechanical Seal Engineering.

- Geometric double balance eliminates shifting O-Rings
- High flow pumping device
- Monolithic seal faces
- Self-Centering Lock Ring eliminates misalignment
- Unified Seal Face Alignment

255™ Standard Double Cartridge Seal – Metric



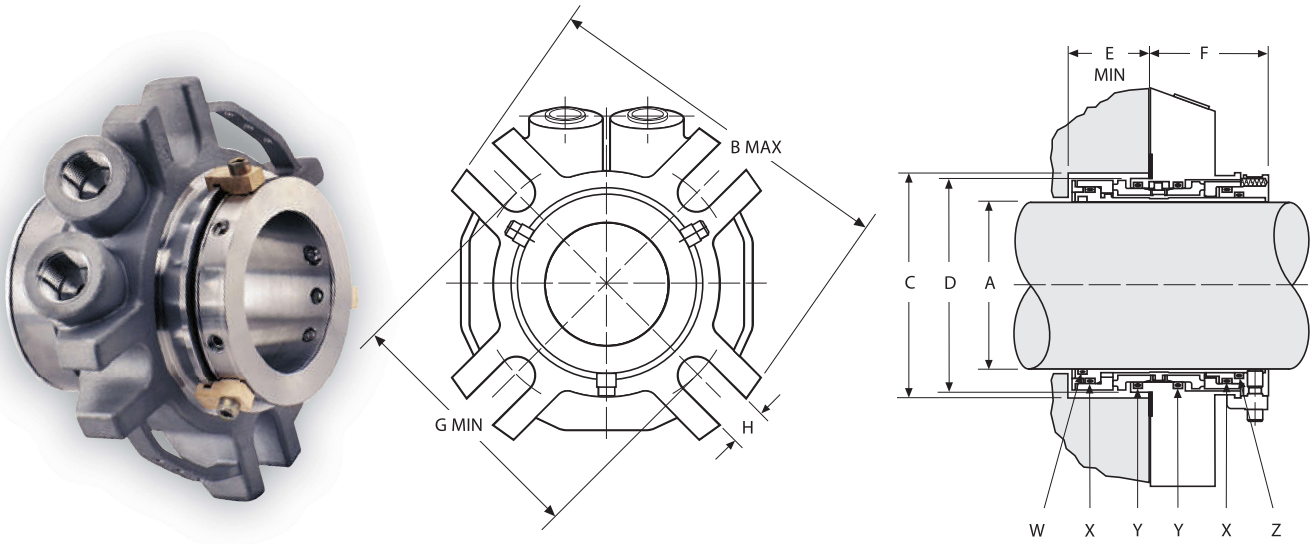
Key

- A – Shaft Size
- B – Gland Outside Diameter
- C – Seal Chamber Bore
- D – IB Seal Diameter
- E – Seal Chamber Depth
- F – Outboard Seal Length
- G – Minimum Bolt Circle by Bolt Size
- H – Slot Width
- W – Shaft O-Ring
- X – Rotary O-Ring (2)
- Y – Stationary Seal O-Ring (2)
- Z – Sleeve O-Ring

A	B MAX	C MIN	C MAX	D MAX	E MIN	F MAX	8 mm	G MIN 10 mm	12 mm	H	W	X	Y	Z
25	105	44	46	43	35	55	70*	72*	74*	14	120	124	126	121
28	105	47	49	46	35	55	73*	75*	77*	14	121	126	128	123
30	105	49	51	48	35	55	76*	78*	80*	14	123	127	129	125
32	105	51	52	50	35	55	77*	79*	81*	14	124	128	131	126
33	114	54	58	53	35	55	78*	80*	82*	14	125	129	131	127
35	111	54	59	53	35	55	80*	82*	84*	14	126	130	132	128
38	114	57	62	57	35	55	83*	85*	87*	14	128	132	134	130
40	127	59	61	58	35	55	86	88*	90*	14	129	134	136	131
43	127	64	69	63	35	55	89	91*	93*	14	131	135	137	133
45	140	64	66	63	35	55	93	95*	97*	14	132	137	139	134
48	140	69	74	68	35	55	94	96*	98*	14	134	139	141	136
50	140	69	71	68	35	55	98	100	102*	14	136	140	142	137
55	153	74	76	73	35	55		103	105	17	139	143	145	140
60	153	79	85	79	35	55		113	115	17	142	146	148	144
							12 mm	16 mm	20 mm					
65	164	92	93	91	42	64	127*	131*		17	231	234	236	232
70	196	95	105	95	42	64	137	141		17	232	235	237	234
75	202	102	112	101	42	64	143	147		17	234	237	239	235
80	203	105	115	104	42	64	147	151		17	235	238	240	237
85	211	111	121	110	42	64	152	156	160*	21	237	240	242	238
90	214	114	124	114	42	64	156	160	164	21	238	241	243	240
95	221	121	131	120	42	64	161	165	169	21	240	243	245	241
100	228	127	137	126	42	64	168	172	176	21	242	245	247	243
110	237	137	147	136	42	64	177	181	185	21	245	248	250	246
120	266	146	156	145	42	64	187	191	195	21	248	251	253	249

*Two bolts only

255™ Standard Double Cartridge Seal – Inch



Key													
A – Shaft Size	B – Gland Outside Diameter	C – Seal Chamber Bore	D – IB Seal Diameter	E – Seal Chamber Depth	F – Outboard Seal Length	G – Minimum Bolt Circle by Bolt Size	H – Slot Width	W – Shaft O-Ring	X – Rotary O-Ring (2)	Y – Stationary Seal O-Ring (2)	Z – Sleeve O-Ring		

A	B MAX	C MIN	C MAX	D MAX	E MIN	F MAX	3/8"	G MIN 1/2"	5/8"	H	W	X	Y	Z
1.000	4.12	1.75	1.81	1.73	1.36	2.16	2.81*	2.94*	–	0.57	120	124	126	121
1.125	4.12	1.88	1.94	1.85	1.36	2.16	2.95*	3.08*	–	0.57	122	126	128	124
1.250	4.12	2.00	2.06	1.98	1.36	2.16	3.08*	3.21*	–	0.57	124	128	130	126
1.375	4.37	2.13	2.31	2.10	1.36	2.16	3.21*	3.34*	–	0.57	126	130	132	128
1.500	4.50	2.25	2.44	2.23	1.36	2.16	3.33*	3.46*	–	0.57	128	132	134	130
1.625	5.00	2.38	2.56	2.35	1.36	2.16	3.45*	3.58*	–	0.56	130	134	136	132
1.750	5.50	2.50	2.81	2.48	1.36	2.16	3.66	3.79*	–	0.56	132	136	138	134
1.875	5.50	2.63	2.94	2.60	1.36	2.16	3.78	3.91*	–	0.56	134	138	140	136
2.000	5.50	2.75	3.19	2.73	1.36	2.16	4.03	4.16	–	0.56	136	140	142	138
2.125	6.01	2.88	3.44	2.85	1.36	2.16	4.29	4.42	4.54	0.68	138	142	144	140
2.250	6.01	3.00	3.56	2.98	1.36	2.16	4.41	4.54	4.66	0.68	140	144	146	142
2.375	6.01	3.13	3.59	3.10	1.36	2.16	4.44	4.57	4.69*	0.68	142	146	148	144
2.500	6.51	3.25	3.81	3.23	1.36	2.16	4.66	4.79	4.91	0.68	144	148	150	146
							1/2"	5/8"	3/4"					
2.625	6.45	3.63	3.69	3.60	1.64	2.52	5.02*	5.15*	–	0.68	231	234	236	233
2.750	7.71	3.75	4.19	3.72	1.64	2.52	5.42	5.55	–	0.68	232	235	237	234
2.875	7.83	3.88	4.32	3.85	1.64	2.52	5.50	5.63	–	0.68	233	236	238	235
3.000	7.94	4.00	4.44	3.97	1.64	2.52	5.65	5.78	–	0.68	234	237	239	236
3.125	7.99	4.13	4.57	4.10	1.64	2.52	5.80	5.93	–	0.68	235	238	240	237
3.250	8.19	4.25	4.69	4.22	1.64	2.52	5.93	6.06	–	0.68	236	239	241	238
3.375	8.31	4.38	4.82	4.35	1.64	2.52	6.00	6.13	6.26	0.81	237	240	242	239
3.500	8.44	4.50	4.94	4.47	1.64	2.52	6.16	6.29	6.42	0.81	238	241	243	240
3.625	8.49	4.63	5.07	4.60	1.64	2.52	6.29	6.42	6.55	0.81	239	242	244	241
3.750	8.72	4.75	5.19	4.72	1.64	2.52	6.36	6.49	6.62	0.81	240	243	245	242
3.875	8.84	4.88	5.32	4.85	1.64	2.52	6.50	6.63	6.76	0.81	241	244	246	243
4.000	8.96	5.00	5.44	4.97	1.64	2.52	6.64	6.77	6.90	0.81	242	245	247	244
4.125	8.99	5.13	5.57	5.10	1.64	2.52	6.76	6.89	7.02	0.81	243	246	248	245
4.250	8.99	5.25	5.69	5.22	1.64	2.52	6.89	7.02	7.15	0.81	244	247	249	246
4.375	9.34	5.38	5.82	5.35	1.64	2.52	7.01	7.14	7.27	0.81	245	248	250	247
4.500	9.49	5.50	5.94	5.47	1.64	2.52	7.16	7.29	7.42	0.81	246	249	251	248
4.625	9.49	5.63	6.07	5.60	1.64	2.52	7.26	7.39	7.52	0.81	247	250	252	249
4.750	10.49	5.75	6.19	5.72	1.64	2.52	7.38	7.51	7.64	0.81	248	251	253	250

*Two bolts only