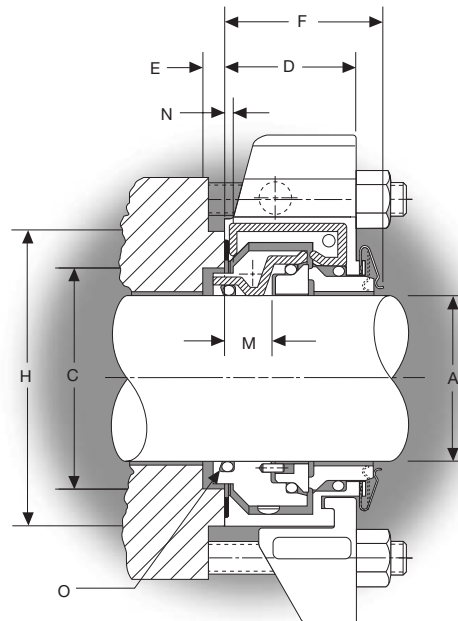
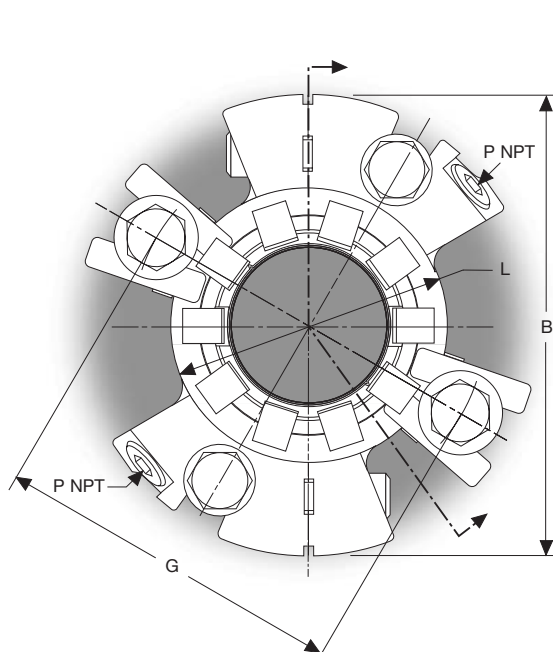


442 Split Mechanical Seal



KEY

A – Shaft Size	F – Outboard Length Required	N – Installation Dimension
B – Maximum Gland Diameter	G – Minimum Bolt Circle by Bolt Size	O – Shaft O-ring Number
C – Min./Max. Stuffing Box Diameter	H – Minimum Stuffing Box Face O.D.	P – NPT Size
D – Gland Length	L – Gland Hub OD	
E – Minimum Stuffing Box Depth	M – Holder ID from Box	

442 SPLIT MECHANICAL SEAL OPERATING LIMITS

SIZE RANGE	HOLDER TYPE	SHAFT SPEED	FACE MATERIAL COMBINATION		
			CARBON/RSC Psig (Bar g)	RSC/RSC Psig (Bar g)	CARBON/CERAMIC Psig (Bar g)
Small Size -10 to -20 32 mm to 60 mm	STD Holder	1750	28" Hg to 300 (-1 to 21)	28" Hg to 300 (-1 to 21)	28" Hg to 300 (-1 to 21)
		3600	28" Hg to 300 (-1 to 21)	28" Hg to 175 (-1 to 12)	28" Hg to 100 (-1 to 7)
	HP Holder	1750	300 to 450 (21 to 31)	300 to 450 (21 to 31)	300 to 450 (21 to 31)
		3600	300 to 450 (21 to 31)	N/A	N/A
Large Size -21 to -38 65 mm to 120 mm	STD Holder	1750	28" Hg to 200* (-1 to 14)	28" Hg to 200* (-1 to 14)	28" Hg to 200* (-1 to 14)
	HP Holder	1750	200* to 250 (14 to 17)	200* to 250 (14 to 17)	200 (14)
Extra Large Size -39 to -62 125 mm to 195 mm	STD Holder	875	28" Hg to 150 (-1 to 10)	28" Hg to 150 (-1 to 10)	28" Hg to 150 (-1 to 10)
	HP Holder	875	150 to 200 (10 to 14)	150 to 200 (10 to 14)	150 to 200 (10 to 14)

* 200 Psig for even dash sizes and 150 Psig for odd shaft sizes

DIMENSIONAL DATA (INCH)

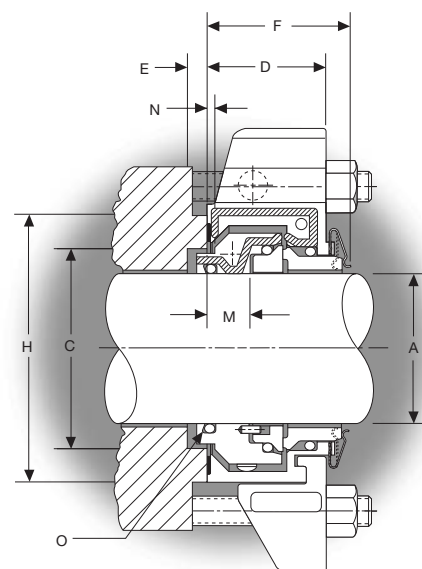
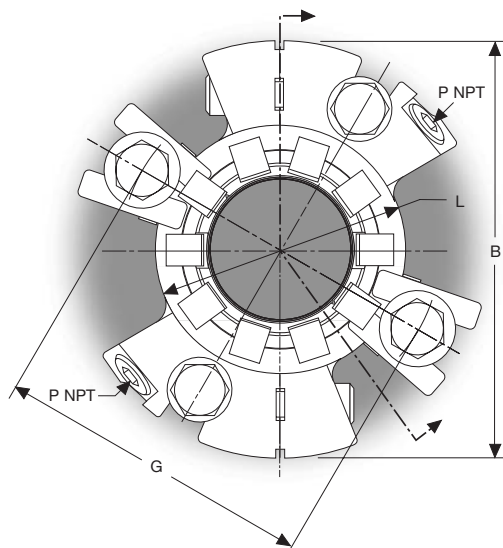
A SHAFT SIZE	B GLAND OD	C STUFFING BOX BORE		D GLAND LENGTH	E SB DEPTH	F OB LENGTH	G BOLT CIRCLE BY BOLT SIZE					H SB FACE OD	L GLAND HUB OD	O SHAFT O-RING NO.
	MAX	MIN	MAX		MIN		MIN					MIN	MAX	
							3/8"	1/2"	5/8"	3/4"	7/8"			
1.250	4.91	1.86	2.10	1.48	0.17	1.78	3.17	3.29	3.42	3.54	3.67	2.35	2.79	219
1.375	5.01	1.94	2.38	1.48	0.17	1.78	3.25	3.38	3.50	3.63	3.75	2.63	2.86	221
1.500	5.13	2.06	2.50	1.48	0.17	1.78	3.38	3.50	3.62	3.75	3.87	2.75	2.99	223
1.625	5.26	2.19	2.63	1.48	0.17	1.78	3.50	3.62	3.75	3.87	4.00	2.87	3.11	224
1.750	5.38	2.31	2.75	1.48	0.17	1.78	3.63	3.75	3.87	4.00	4.12	3.00	3.24	225
1.875	5.50	2.44	2.88	1.48	0.17	1.78	3.75	3.87	4.00	4.12	4.25	3.12	3.36	226
2.000	5.63	2.56	3.00	1.48	0.17	1.78	3.88	4.00	4.12	4.25	4.37	3.25	3.49	227
2.125	5.76	2.69	3.12	1.48	0.17	1.78	4.00	4.12	4.25	4.37	4.50	3.37	3.62	228
2.250	5.88	2.81	3.25	1.48	0.17	1.78	4.13	4.25	4.37	4.50	4.62	3.50	3.74	229
2.375	6.01	2.94	3.37	1.48	0.17	1.78	4.25	4.37	4.50	4.62	4.75	3.62	3.87	230
2.500	6.13	3.06	3.75	1.48	0.17	1.78	4.63	4.75	4.87	5.00	5.12	4.00	4.24	231
2.625	7.76	3.35	4.25	1.84	0.26	2.24	5.38	5.50	5.63	5.75	5.88	4.75	4.98	232
2.750	7.76	3.35	4.25	1.84	0.26	2.24	5.38	5.50	5.63	5.75	5.88	4.75	4.98	233
2.875	8.01	3.60	4.50	1.84	0.26	2.24	5.63	5.75	5.88	6.00	6.13	5.00	5.23	234
3.000	8.01	3.60	4.50	1.84	0.26	2.24	5.63	5.75	5.88	6.00	6.13	5.00	5.23	235
3.125	8.26	3.85	4.75	1.84	0.26	2.24	5.88	6.00	6.13	6.25	6.38	5.25	5.48	236
3.250	8.26	3.85	4.75	1.84	0.26	2.24	5.88	6.00	6.13	6.25	6.38	5.25	5.48	237
3.375	8.51	4.10	5.00	1.84	0.26	2.24	6.13	6.25	6.38	6.50	6.63	5.50	5.73	238
3.500	8.51	4.10	5.00	1.84	0.26	2.24	6.13	6.25	6.38	6.50	6.63	5.50	5.73	239
3.625	8.77	4.35	5.25	1.84	0.26	2.24	6.38	6.50	6.63	6.75	6.88	5.75	5.98	240
3.750	8.77	4.35	5.25	1.84	0.26	2.24	6.38	6.50	6.63	6.75	6.88	5.75	5.98	241
3.875	9.02	4.60	5.50	1.84	0.26	2.24	6.63	6.75	6.88	7.00	7.13	6.00	6.24	242
4.000	9.02	4.60	5.50	1.84	0.26	2.24	6.63	6.75	6.88	7.00	7.13	6.00	6.24	243
4.125	9.27	4.85	5.75	1.84	0.26	2.24	6.88	7.00	7.13	7.25	7.38	6.25	6.49	244
4.250	9.27	4.85	5.75	1.84	0.26	2.24	6.88	7.00	7.13	7.25	7.38	6.25	6.49	245
4.375	9.52	5.10	6.00	1.84	0.26	2.24	7.13	7.25	7.38	7.50	7.63	6.50	6.74	246
4.500	9.52	5.10	6.00	1.84	0.26	2.24	7.13	7.25	7.38	7.50	7.63	6.50	6.74	247
4.625	9.77	5.35	6.25	1.84	0.26	2.24	7.38	7.50	7.63	7.75	7.88	6.75	6.99	248
4.750	9.77	5.35	6.25	1.84	0.26	2.24	7.38	7.50	7.63	7.75	7.88	6.75	6.99	249
4.875	11.276	5.865	7.000	2.91	0.29	3.45			8.375	8.500	8.625	7.50	7.74	353
5.000	11.276	5.990	7.000	2.91	0.29	3.45			8.375	8.500	8.625	7.50	7.74	354
5.125	11.528	6.115	7.250	2.91	0.29	3.45			8.625	8.750	8.875	7.75	7.99	355
5.250	11.528	6.240	7.250	2.91	0.29	3.45			8.625	8.750	8.875	7.75	7.99	356
5.375	11.778	6.365	7.500	2.91	0.29	3.45			8.875	9.000	9.125	8.00	8.24	357
5.500	11.778	6.490	7.500	2.91	0.29	3.45			8.875	9.000	9.125	8.00	8.24	358
5.625	12.030	6.615	7.750	2.91	0.29	3.45			9.125	9.250	9.375	8.25	8.49	359
5.750	12.030	6.740	7.750	2.91	0.29	3.45			9.125	9.250	9.375	8.25	8.49	360
5.875	12.282	6.865	8.000	2.91	0.29	3.45			9.375	9.500	9.625	8.50	8.74	361
6.000	12.282	6.990	8.000	2.91	0.29	3.45			9.375	9.500	9.625	8.50	8.74	362
6.125	12.532	7.115	8.250	2.91	0.29	3.45			9.625	9.750	9.875	8.75	8.99	362
6.250	12.532	7.240	8.250	2.91	0.29	3.45			9.625	9.750	9.875	8.75	8.99	363
6.375	12.784	7.365	8.500	2.91	0.29	3.45			9.875	10.000	10.125	9.00	9.25	363
6.500	12.784	7.490	8.500	2.91	0.29	3.45			9.875	10.000	10.125	9.00	9.25	364
6.625	13.034	7.615	8.750	2.91	0.29	3.45			10.125	10.250	10.375	9.25	9.50	364
6.750	13.034	7.740	8.750	2.91	0.29	3.45			10.125	10.250	10.375	9.25	9.50	365
6.875	13.286	7.865	9.000	2.91	0.29	3.45			10.375	10.500	10.625	9.50	9.75	365
7.000	13.286	7.990	9.000	2.91	0.29	3.45			10.375	10.500	10.625	9.50	9.75	366
7.125	13.538	8.115	9.250	2.91	0.29	3.45			10.625	10.750	10.875	9.75	10.00	366
7.250	13.538	8.240	9.250	2.91	0.29	3.45			10.625	10.750	10.875	9.75	10.00	367
7.375	13.788	8.365	9.500	2.91	0.29	3.45			10.875	11.000	11.125	10.00	10.25	367
7.500	13.788	8.490	9.500	2.91	0.29	3.45			10.875	11.000	11.125	10.00	10.25	368
7.625	14.040	8.615	9.750	2.91	0.29	3.45			11.125	11.250	11.375	10.25	10.50	368
7.750	14.040	8.740	9.750	2.91	0.29	3.45			11.125	11.250	11.375	10.25	10.50	369

KEY (DRAWINGS)	M	N	P
SIZE	HOLDER ID FROM BOX	INSTALLATION DIM	NPT SIZE
up to 2.50" (38 mm)	0.53 (13,5)	0.094 (2,4)	1/4"
up to 4.75" (120 mm)	0.53 (13,5)	0.094 (2,4)	3/8"
up to 7.75" (195 mm)	1.03 (26,0)	0.188 (4,8)	1/2"

Other sizes available on request.
Contact Engineering.

KEY

- A – Shaft Size
- B – Maximum Gland Diameter
- C – Min./Max. Stuffing Box Diameter
- D – Gland Length
- E – Minimum Stuffing Box Depth
- F – Outboard Length Required
- G – Minimum Bolt Circle by Bolt Size
- H – Minimum Stuffing Box Face O.D.
- L – Gland Hub OD
- M – Holder ID from Box
- N – Installation Dimension
- O – Shaft O-ring Number
- P – NPT Size

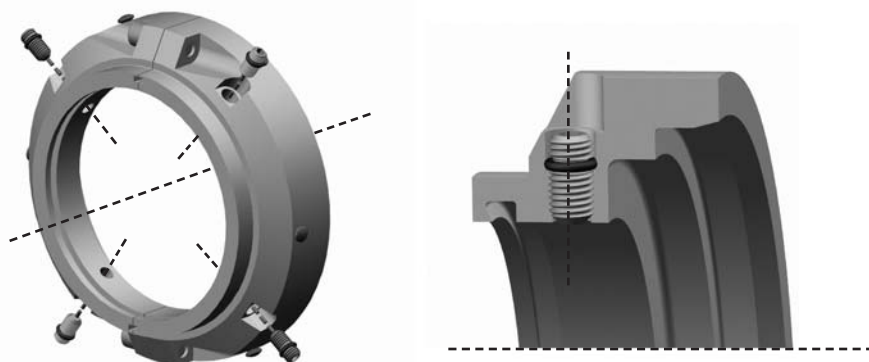


DIMENSIONAL DATA (METRIC)

A	B	C		D	E	F	G								H	L	O
SHAFT	GLAND	STUFFING BOX		GLAND	SB	OB	BOLT CIRCLE BY								SB	GLAND	SHAFT
SIZE	OD	BORE		LENGTH	DEPTH	LENGTH	BOLT SIZE								FACE	HUB	O-RING
	MAX	MIN	MAX		MIN		MIN								OD	OD	NO.
							8 mm	10 mm	12 mm	14 mm	16 mm	18 mm	20 mm	22 mm	MIN	MAX	
32,0	124,7	47,2	53,3	37,6	4,3	45,2	78,9	80,9	82,9	84,9	86,9				59,9	70,9	219
33,0	124,7	47,2	53,3	37,6	4,3	45,2	78,9	80,9	82,9	84,9	86,9				59,9	70,9	220
35,0	126,7	49,3	60,5	37,6	4,3	45,2	80,6	82,6	84,6	86,6	88,6				66,8	72,6	221
38,0	130,3	52,3	63,5	37,6	4,3	45,2	83,9	85,9	87,9	89,9	91,9				69,9	75,9	223
40,0	133,6	55,6	66,8	37,6	4,3	45,2	87,0	89,0	91,0	93,0	95,0				73,2	79,0	223
43,0	136,7	58,7	70,0	37,6	4,3	45,2	90,3	92,3	94,3	96,3	98,3				76,2	82,3	224
45,0	136,7	58,7	70,0	37,6	4,3	45,2	90,3	92,3	94,3	96,3	98,3				76,2	82,3	225
48,0	139,7	62,0	73,2	37,6	4,3	45,2	93,3	95,3	97,3	99,3	101,3				79,5	85,3	226
50,0	143,0	65,0	76,2	37,6	4,3	45,2	96,6	98,6	100,6	102,6	104,6				82,6	88,6	226
55,0	146,3	68,3	79,2	37,6	4,3	45,2	99,9	101,9	103,9	105,9	107,9				85,9	91,9	228
60,0	152,7	74,7	85,6	37,6	4,3	45,2	106,8	108,8	110,8	112,8	114,8				92,2	98,8	230
65,0	197,1	85,1	108,0	46,7	6,6	56,9			138,5	140,5	142,5	144,5	146,5		120,7	126,5	231
70,0	197,1	85,1	108,0	46,7	6,6	56,9			138,5	140,5	142,5	144,5	146,5		120,7	126,5	233
75,0	203,5	91,4	114,3	46,7	6,6	56,9			144,8	146,8	148,8	150,8	152,8		127,0	132,8	234
80,0	209,8	97,8	120,7	46,7	6,6	56,9			151,2	153,2	155,2	157,2	159,2		133,4	139,2	236
85,0	216,2	104,1	127,0	46,7	6,6	56,9			157,5	159,5	161,5	163,5	165,5		139,7	145,5	237
90,0	216,2	104,1	127,0	46,7	6,6	56,9			157,5	159,5	161,5	163,5	165,5		139,7	145,5	239
95,0	222,8	110,5	133,4	46,7	6,6	56,9			163,9	165,9	167,9	169,9	171,9		146,1	151,9	241
100,0	229,1	116,8	139,7	46,7	6,6	56,9			170,5	172,5	174,5	176,5	178,5		152,4	158,5	242
110,0	241,8	129,5	152,4	46,7	6,6	56,9			183,2	185,2	187,2	189,2	191,2		165,1	171,2	245
115,0	241,8	129,5	152,4	46,7	6,6	56,9			183,2	185,2	187,2	189,2	191,2		165,1	171,2	247
120,0	248,2	135,9	158,8	46,7	6,6	56,9			189,5	191,5	193,5	195,5	197,5		171,5	177,5	248
125,0	286,4	150,1	177,8	73,9	7,4	87,6						214,6	216,6	218,6	190,5	196,6	354
130,0	292,8	155,1	184,2	73,9	7,4	87,6						220,9	222,9	224,9	196,9	202,9	355
135,0	299,2	160,1	190,5	73,9	7,4	87,6						227,3	229,3	231,3	203,2	209,3	356
140,0	299,2	165,2	190,5	73,9	7,4	87,6						227,3	229,3	231,3	203,2	209,3	358
145,0	305,6	170,2	196,9	73,9	7,4	87,6						233,6	235,6	237,6	209,6	215,6	360
150,0	312,0	175,2	203,2	73,9	7,4	87,6						240,0	242,0	244,0	215,9	222,0	361
155,0	318,0	180,1	209,6	73,9	7,4	87,6						246,3	248,3	250,3	222,3	228,3	362
160,0	324,7	185,1	215,9	73,9	7,4	87,6						253,0	255,0	257,0	228,6	235,0	363
165,0	324,7	190,1	215,9	73,9	7,4	87,6						253,0	255,0	257,0	228,6	235,0	364
170,0	331,0	195,1	222,3	73,9	7,4	87,6						259,3	261,3	263,3	235,0	241,3	364
175,0	337,5	200,2	228,6	73,9	7,4	87,6						265,7	267,7	269,7	241,3	247,7	365
180,0	337,5	205,2	228,6	73,9	7,4	87,6						272,0	274,0	276,0	247,7	254,0	366
185,0	343,9	210,2	235,0	73,9	7,4	87,6						272,0	274,0	276,0	247,7	254,0	367
190,0	350,2	215,1	241,3	73,9	7,4	87,6						278,4	280,4	282,4	254,0	260,4	368
195,0	356,6	220,1	247,7	73,9	7,4	87,6						284,7	286,7	288,7	260,4	266,7	368

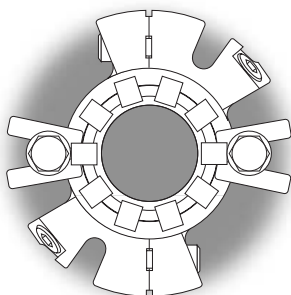
442 HIGH PRESSURE (OPTIONAL HOLDER DESIGN)

Utilizes setscrews to better secure the rotary holder to the shaft.

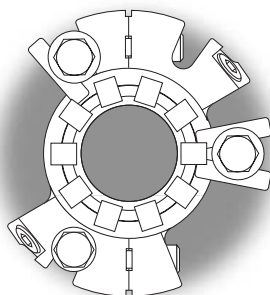


MOUNTING CONFIGURATIONS

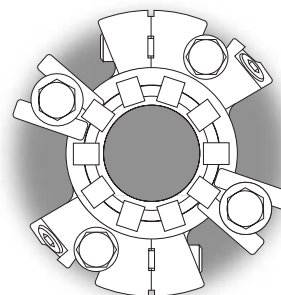
1.625" to 2.500" (40 mm to 60 mm)
2.625" to 4.750" (65 mm to 120 mm)



2 BOLTS

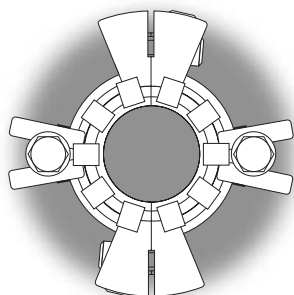


3 BOLTS

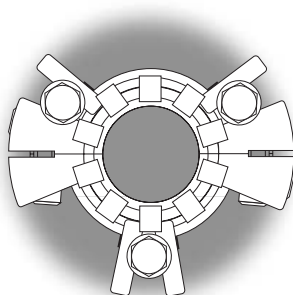


4 BOLTS

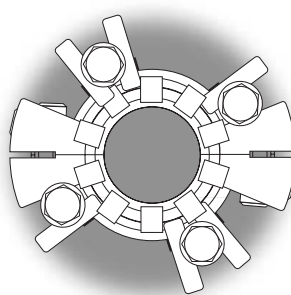
4.875" to 7.750" (125 mm to 195 mm) Extra Large
up to 1.500" (up to 38 mm) Small



2 BOLTS



3 BOLTS



4 BOLTS

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FORM NO. 073385 Part B

PRINTED IN USA 6/06