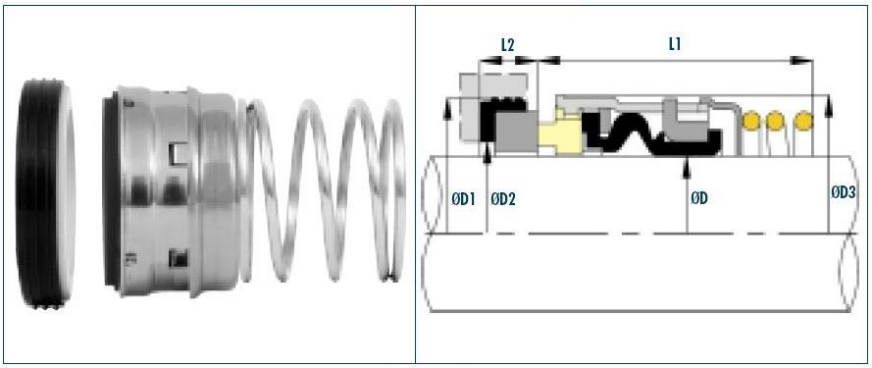
MECHANICAL SEALS

PRODUCT DATA SHEET

Balanced Diaphragm

Abbey TYA1



Robust long working length, highly accommodating and reliable, rubber diaphragm balanced seal, which provides enhanced seal capability, performance and life. Improved design features further enhance this popular seal. Suitable for common UK and Euro housing dimensions

Abbey Standard sizes

INCH			METRIC						
Shaft Size	**Size Code**		**Shaft Size OD**	**Size Code**	**0D1**	**OD2**	**OD3**	**L1**	**L2**
0.500	-050		12.00	12MM	27.79	19.05	23.80	44.00	8.74
			14.00	14MM	30.95	22.23	27.76	44.00	10.32
0.625	-062		16.00	16MM	30.95	22.23	27.76	44.00	10.32
0.750	-075		18.00	18MM	34.15	25.40	30.94	44.00	10.32
			20.00	20MM	35.70	26.99	33.00	44.00	10.32
0.875	-087		22.00	22MM	37.30	28.58	34.11	44.00	10.32
			24.00	24MM	40.50	31.75	38.10	44.00	10.32
1.000	-100		25.00	25MM	40.50	31.75	38.10	44.00	10.32
1.125	-112		28.00	28MM	47.63	35.72	41.28	60.00	11.99
			30.00	30MM	50.80	38.89	46.02	60.00	11.99
1.250	-125		32.00	32MM	50.80	38.89	46.02	60.00	11.99
			33.00	33MM	53.98	42.07	47.63	60.00	11.99
1.375	-137		35.00	35MM	53.98	42.07	47.63	60.00	11.99
1.500	-150		38.00	38MM	57.15	45.24	50.80	60.00	11.99
1.625	-162		40.00	40MM	60.35	48.82	57.15	60.00	11.99
			43.00	43MM	63.50	51.59	62.50	71.00	11.99
1.750	-175		45.00	45MM	63.50	51.59	62.50	71.00	11.99
1.875	-187		48.00	48MM	66.70	54.75	65.50	71.00	11.99
2.000	-200		50.00	50MM	69.85	58.00	66.68	71.00	13.50
2.125	-212		53.00	53MM	73.05	62.00	71.42	71.00	13.50
2.250	-250		55.00	55MM	76.20	65.00	74.60	71.00	13.50
2.375	-237		60.00	60MM	79.40	68.00	77.77	71.00	13.50
2.500	-250		63.00	63MM	82.55	71.20	80.95	71.00	13.50
2.625	-262		65.00	65MM	92.10	78.35	85.73	71.00	15.90
2.750	-275		70.00	70MM	95.25	81.10	88.90	71.00	15.90
2.875	-287		73.00	73MM	98.45	84.50	92.08	73.00	15.90
3.000	-3.00		75.00	75MM	101.65	88.10	95.25	73.00	15.90

Standard Face Materials

Rotary: Carbon, Silicon Carbide, Tungsten Carbide

Stat: Ceramic, Silicon Carbide, Tungsten Carbide

Other Face Materials to order

Maximum Operating Limits

PRESSURE 220 psi SPEED 18m/s

TEMPERATURE -40 + 200^0 C

Dependant on shaft dia, Speed, Temp and media to be sealed

DUBLIN T: +353 (0)1 427 7900 E: dublin@abbeyseals.ie

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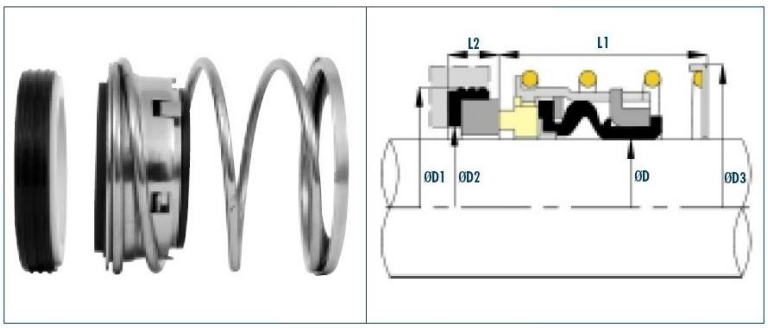
THE SEAL SPECIALISTS

Abbey TYA2



Robust,short working length, highly accommodating and reliable, rubber diaphragm balanced seal, which provides enhanced seal capability, performance and life. Improved design features further enhance this popular seal. Suitable for common UK and Euro housing dimensions

Abbey Standard sizes

INCH METRIC

Shaft Size	Size Code		Shaft Size OD	Size Code	0D1	OD2	OD3	L1	L2
			12.00	12MM	27.79	19.05	31.50	25.00	8.74
0.500	-050				27.79	19.05	31.50	25.00	8.74
			14.00	14MM	30.95	22.23	35.00	25.00	10.32
			15.00	15MM	30.95	22.23	35.00	25.00	10.32
0.625	-062		16.00	16MM	30.95	22.23	35.00	25.00	10.32
0.750	-075		18.00	18MM	34.15	25.40	38.00	25.00	10.32
			20.00	20MM	35.70	26.99	42.50	25.00	10.32
0.875	-087		22.00	22MM	37.30	28.58	41.00	25.00	10.32
			24.00	24MM	40.50	31.75	47.00	25.00	10.32
1.000	-100		25.00	25MM	40.50	31.75	47.00	25.00	10.32
1.125	-112		28.00	28MM	47.63	35.72	50.50	33.00	11.99
			30.00	30MM	50.80	38.89	54.50	33.00	11.99
1.250	-125		32.00	32MM	50.80	38.89	54.50	33.00	11.99
			33.00	33MM	53.98	42.07	59.00	33.00	11.99
1.375	-137		35.00	35MM	53.98	42.07	59.00	33.00	11.99
1.500	-150		38.00	38MM	57.15	45.24	63.00	33.00	11.99
1.625	-162		40.00	40MM	60.35	48.82	70.00	33.00	11.99
			43.00	43MM	63.50	51.59	73.50	41.00	11.99
1.750	-175		45.00	45MM	63.50	51.59	73.50	41.00	11.99
1.875	-187		48.00	48MM	66.70	54.75	76.50	41.00	11.99
2.000	-200		50.00	50MM	69.85	58.00	79.50	41.00	13.50
2.125	-212		53.00	53MM	73.05	62.00	84.00	41.00	13.50
2.250	-250		55.00	55MM	76.20	65.00	88.00	41.00	13.50
2.375	-237		60.00	60MM	79.40	68.00	91.00	41.00	13.50
2.500	-250		63.00	63MM	82.55	71.20	94.50	41.00	13.50
2.625	-262		65.00	65MM	92.10	78.35	99.50	49.00	15.90
2.750	-275		70.00	70MM	95.25	81.10	102.50	49.00	15.90
2.875	-287		73.00	73MM	98.45	84.50	106.50	52.00	15.90
3.000	-300		75.00	75MM	101.65	88.10	110.00	52.00	15.90

Standard Face Materials
Rotary: Carbon, Silicon Carbide, Tungsten Carbide
Stat: Ceramic, Silicon Carbide, Tungsten Carbide
Other Face Materials to order

Maximum Operating Limits
PRESSURE 220 psi SPEED 18m/s
TEMPERATURE -40 + 200^0 C
Dependant on shaft dia, speed, Temp and media to be sealed

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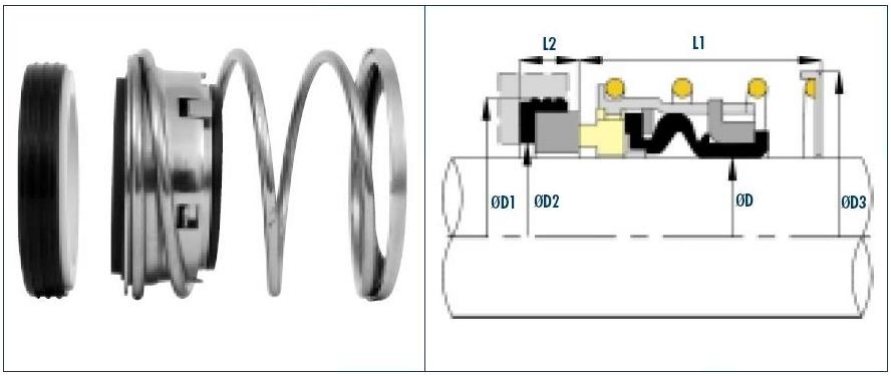
Abbey TYA3/ TYA4



Robust, Short working length highly accommodating and reliable rubber diaphragm balanced seal which provides enhanced seal capability , performance and life. Improved design features further enhance this popular seal. Suitable for common US standard housing and working lengths dimensions.

Abbey Standard sizes

Shaft Size OD	Size Code		Shaft Size OD	Size Code	0D1	OD2	TYA3 OD3	TYA4 OD3	L1	L2
0.500	-050		12.00	12MM	25.40	19.05	28.58	30.14	20.64	7.93
			14.00	14MM	31.75	23.80	30.30	33.32	22.23	10.28
0.625	-062		16.00	16MM	31.75	23.80	31.75	33.32	22.23	10.28
0.750	-075		18.00	18MM	34.93	26.98	34.93	36.50	22.23	10.28
			20.00	20MM	38.10	30.15	36.95	39.67	23.80	10.28
0.875	-087		22.00	22MM	38.10	30.15	38.10	39.67	23.80	10.28
			24.00	24MM	41.28	33.32	42.65	45.50	25.40	11.10
1.000	-100		25.00	25MM	41.28	33.32	43.69	45.50	25.40	11.10
1.125	-112		28.00	28MM	44.44	36.50	46.86	48.50	26.97	11.10
			30.00	30MM	47.63	37.90	48.80	52.37	26.97	11.10
1.250	-125		32.00	32MM	47.63	37.90	51.21	52.37	26.97	11.10
			33.00	33MM	50.80	42.84	52.50	56.00	28.58	11.10
1.375	-137		35.00	35MM	50.80	42.84	54.38	56.00	28.58	11.10
1.500	-150		38.00	38MM	53.98	46.05	57.55	59.20	28.58	11.10
1.625	-162		40.00	40MM	60.33	50.80	64.95	67.00	34.93	12.70
			43.00	43MM	63.50	53.97	66.30	69.85	34.93	12.70
1.750	-175		45.00	45MM	63.50	53.97	68.12	69.85	34.93	12.70
1.875	-187				66.68	57.15	71.17	73.03	38.10	12.70
			48.00	48MM	69.85	57.15	71.17	73.03	38.10	12.70
2.000	-200		50.00	50MM	69.85	60.32	74.47	76.20	38.10	12.70
2.125	-212		53.00	53MM	76.20	60.32	80.72	82.55	42.85	14.28
2.250	-250		55.00	55MM	79.38	61.90	83.90	85.73	42.85	14.28
2.375	-237		60.00	60MM	82.55	67.39	87.07	88.90	46.02	14.28
2.500	-250		63.00	63MM	85.73	68.25	90.25	92.08	46.02	14.28
2.625	-262		65.00	65MM	85.73	71.24	96.42	98.43	49.20	15.90
2.750	-275		70.00	70MM	88.90	74.60	99.60	101.60	49.20	15.90
2.875	-287		73.00	73MM	95.25	77.77	102.77	104.78	52.37	15.90
3.000	-300		75.00	75MM	98.43	80.95	105.94	107.95	52.37	15.90

Standard Face Materials

Rotary: Carbon, Silicon Carbide, Tungsten Carbide

Stat: Ceramic, Silicon Carbide, Tungsten Carbide

Other Face Materials to order

Maximum Operating Limits

PRESSURE 220 psi SPEED 18m/s

TEMPERATURE -40 + 200^0 C

Dependant on shaft dia, speed, Temp and media to be sealed

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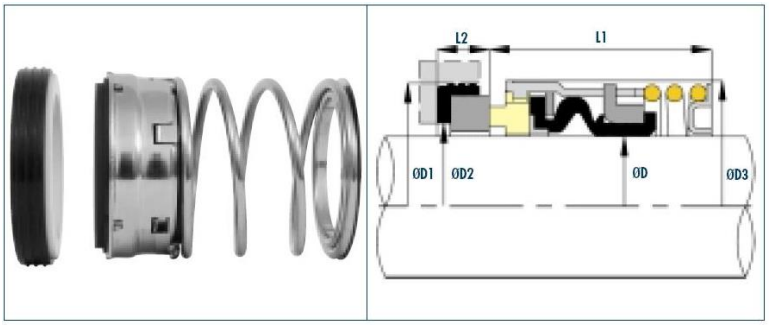
Abbey TYA5



Robust, Long working length highly accommodating and reliable rubber diaphragm balanced seal which provides enhanced seal capability , performance and life. Improved design features further enhance this popular seal. Suitable for common US standard housing and working lengths dimensions.

Abbey Standard sizes

Shaft Size OD	Size Code		Shaft Size OD	Size Code	0D1	OD2	OD3	L1	L2
0.500	-050		12.00	12MM	25.40	19.05	23.80	30.16	7.93
			14.00	14MM	31.75	23.80	27.76	33.32	10.28
0.625	-062		16.00	16MM	31.75	23.80	27.76	33.32	10.28
0.750	-075		18.00	18MM	34.93	26.98	30.94	33.32	10.28
			20.00	20MM	38.10	30.15	34.11	34.93	10.28
0.875	-087		22.00	22MM	38.10	30.15	34.11	34.93	10.28
			24.00	24MM	41.28	33.32	38.10	39.67	11.10
1.000	-100		25.00	25MM	41.28	33.32	38.10	39.67	11.10
1.125	-112		28.00	28MM	44.44	36.50	41.28	41.28	11.10
			30.00	30MM	47.63	37.90	46.02	41.28	11.10
1.250	-125		32.00	32MM	47.63	37.90	46.02	41.28	11.10
			33.00	33MM	50.80	42.84	48.68	42.85	11.10
1.375	-137		35.00	35MM	50.80	42.84	48.68	42.85	11.10
1.500	-150		38.00	38MM	53.98	46.05	51.85	42.85	11.10
1.625	-162		40.00	40MM	60.38	50.80	58.10	50.80	12.70
			43.00	43MM	63.50	53.97	61.27	50.80	12.70
1.750	-175		45.00	45MM	63.50	53.97	61.27	50.80	12.70
1.875	-187				66.68	57.15	64.44	53.98	12.70
			48.00	48MM	69.85	57.15	67.21	53.98	12.70
2.000	-200		50.00	50MM	69.85	60.32	67.21	53.98	12.70
2.125	-212		53.00	53MM	76.20	60.32	72.02	60.33	14.28
2.250	-250		55.00	55MM	79.38	61.90	75.30	60.33	14.28
2.375	-237		60.00	60MM	82.55	67.39	78.30	63.50	14.28
2.500	-250		63.00	63MM	85.73	68.25	81.54	63.50	14.28
2.625	-262		65.00	65MM	85.73	71.24	86.22	69.85	15.90
2.750	-275		70.00	70MM	88.90	74.60	89.40	73.03	15.90
2.875	-287		73.00	73MM	95.25	77.77	92.57	73.03	15.90
3.000	-300		75.00	75MM	98.43	80.95	95.75	73.03	15.90

Standard Face Materials

Rotary: Carbon, Silicon Carbide, Tungsten Carbide

Stat: Ceramic, Silicon Carbide, Tungsten Carbide

Other Face Materials to order

Maximum Operating Limits

PRESSURE 220 psi SPEED 18m/s

TEMPERATURE -40 + 200^0 C

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