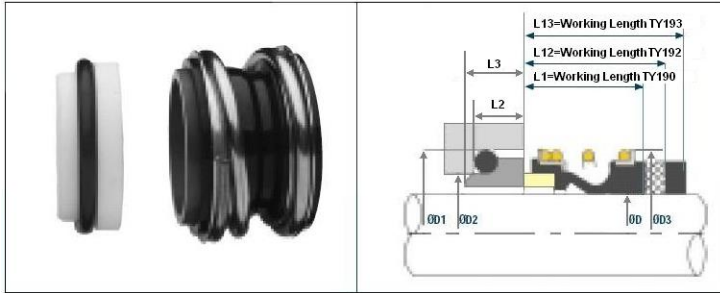


# MECHANICAL SEALS

PRODUCT DATA SHEET

TY190

## Abbey TY190/TY192/TY193



Robust rubber bellows seal with a wide non-DIN cross section, for optimum flexibility and durability. Available with non-DIN O'Ring seat as shown, or a range of other O'Ring Seats. TY192 and TY193 have extended bellows to meet DIN L1K and L1N working lengths when fitted with 8DIN Short or TY170 Boot seats.

### Abbey Standard sizes

Shaft	Size	OD1	OD2	OD3	L1	L12	L13	L2	L3
10.00	10MM	19.20	15.50	20.00	14.50	25.90	33.40	9.00	6.60
12.00	12MM	21.60	17.50	23.20	15.00	25.90	33.40	8.00	5.60
14.00	14MM	24.60	20.50	27.10	17.00	28.40	33.40	8.00	5.60
15.00	15MM	24.60	20.50	28.00	17.00	28.40	33.40	9.00	6.60
16.00	16MM	28.00	22.00	27.10	17.00	28.40	33.40	10.00	7.50
18.00	18MM	30.00	24.00	31.00	19.50	30.00	37.50	10.50	8.00
20.00	20MM	35.00	29.50	36.00	21.50	30.00	37.50	10.00	7.50
22.00	22MM	35.00	29.50	36.00	21.50	30.00	37.50	10.00	7.50
24.00	24MM	38.00	32.00	40.50	22.50	32.50	42.50	10.00	7.50
25.00	25MM	38.00	32.00	41.00	23.00	32.50	42.50	10.00	7.50
28.00	28MM	42.00	36.00	47.00	26.50	35.00	42.50	11.50	9.00
30.00	30MM	45.00	39.20	47.00	26.50	35.00	42.50	13.00	10.50
32.00	32MM	48.00	44.20	51.00	27.50	35.00	47.50	13.00	10.50
33.00	33MM	50.00	44.20	51.00	27.50	35.00	47.50	13.50	11.00
35.00	35MM	52.00	46.20	55.00	28.50	35.00	47.50	13.50	11.00
38.00	38MM	55.00	49.20	57.30	30.00	36.00	46.00	13.00	10.30
40.00	40MM	58.00	52.20	60.00	30.00	36.00	46.00	13.50	10.80
43.00	43MM	62.00	53.30	62.30	30.00	36.00	51.00	14.50	12.00
45.00	45MM	64.00	55.30	64.30	30.00	36.00	51.00	14.50	11.60
48.00	48MM	68.40	59.70	69.00	30.50	36.00	51.00	14.50	11.60
50.00	50MM	69.30	60.80	70.20	30.50	38.00	50.50	14.50	11.60
53.00	53MM	72.30	63.80	76.00	33.00	36.50	59.00	15.00	12.30
55.00	55MM	75.40	66.50	78.00	35.00	36.50	59.00	16.00	13.30
58.00	58MM	78.40	69.50	82.00	37.00	41.50	59.00	16.00	13.30
60.00	60MM	80.40	71.50	85.00	38.00	41.50	59.00	16.00	13.30
65.00	65MM	85.40	76.50	90.00	40.00	41.50	69.00	16.00	13.00
68.00	68MM	91.50	82.70	94.00	40.00	41.50	68.70	16.00	13.70
70.00	70MM	92.00	83.00	97.00	40.00	48.70	68.70	16.00	13.00
75.00	75MM	99.00	90.20	102.00	40.00	48.00	68.70	17.00	14.00
80.00	80MM	104.00	95.20	106.50	40.00	48.00	78.00	18.00	15.00
85.00	85MM	109.00	100.20	117.00	41.00	46.00	76.00	18.00	14.80
90.00	90MM	114.00	105.20	126.00	45.00	51.00	76.00	18.00	14.80
95.00	95MM	120.30	111.60	130.00	46.00	51.00	76.00	19.00	15.80
100.00	100MM	123.30	114.50	130.00	47.00	51.00	76.00	19.00	15.80

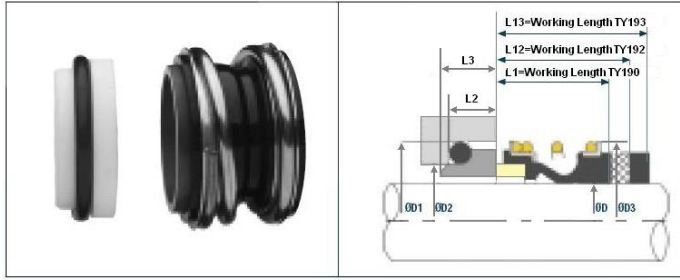
#### Standard Face Materials

**Rotary:** Carbon, Silicon Carbide, Tungsten Carbide  
**Stat:** Ceramic, Silicon Carbide, Tungsten Carbide

#### Maximum Operating Limits

**PRESSURE** 200 psi      **SPEED** 20m/s  
**TEMPERATURE** -40<sup>0</sup> + 200<sup>0</sup> C  
 Dependent on shaft dia, Speed, Temp and Media to be sealed

## Abbey TY190S/TY192S/TY193S

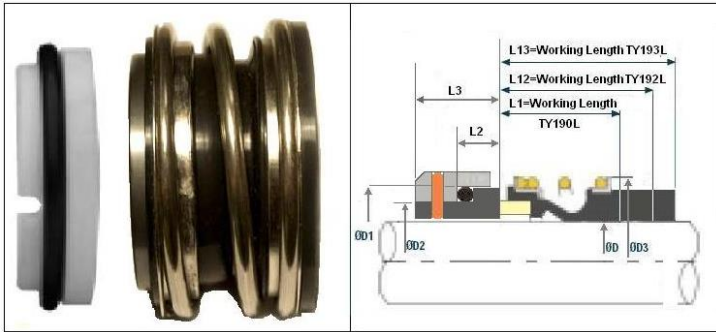


Robust rubber bellows seal with a wide non-DIN cross section, for optimum flexibility and durability. Available with non-DIN O'Ring seat as shown, or a range of other O'Ring Seats. TY192 and TY193 have extended bellows to meet DIN L1K and L1N working lengths

### Abbey Standard sizes

Shaft Size OD	Code	OD1	OD3	L1	L12	L13	L2	192S L1K	193S L1K
10	10MM	21.00	20.00	14.50	25.90	33.40	6.60	32.50	40.00
12	12MM	23.00	24.30	15.00	25.90	33.40	6.60	32.50	40.00
14	14MM	25.00	28.50	17.00	28.40	33.40	6.60	35.00	40.00
15	15MM	27.00	28.50	17.00	28.40	33.40	6.60	35.00	40.00
16	16MM	27.00	28.50	17.00	28.40	33.40	6.60	35.00	40.00
18	18MM	33.00	31.00	19.50	30.00	37.50	7.50	37.50	45.00
20	20MM	35.00	36.50	21.50	30.00	37.50	7.50	37.50	45.00
22	22MM	37.00	36.50	21.50	30.00	37.50	7.50	37.50	45.00
24	24MM	39.00	41.10	22.50	32.50	42.50	7.50	40.00	50.00
25	25MM	40.00	41.10	23.00	32.50	42.50	7.50	40.00	50.00
28	28MM	43.00	47.60	26.50	35.00	42.50	7.50	42.50	50.00
30	30MM	45.00	47.60	26.50	35.00	42.50	7.50	42.50	50.00
32	32MM	48.00	51.00	27.50	35.00	47.50	7.50	42.50	55.00
33	33MM	48.00	51.00	27.50	35.00	47.50	7.50	42.50	55.00
35	35MM	50.00	54.50	28.50	35.00	47.50	7.50	42.50	55.00
38	38MM	56.00	57.90	30.00	36.00	46.00	9.00	45.00	55.00
40	40MM	58.00	60.00	30.00	36.00	46.00	9.00	45.00	55.00
43	43MM	61.00	63.80	30.00	36.00	51.00	9.00	45.00	60.00
45	45MM	63.00	65.70	30.00	36.00	51.00	9.00	45.00	60.00
48	48MM	66.00	69.30	30.50	36.00	51.00	9.00	45.00	60.00
50	50MM	70.00	71.80	30.50	38.00	50.50	9.50	47.50	60.00
53	53MM	73.00	76.00	33.00	36.50	59.00	11.00	47.50	70.00
55	55MM	75.00	78.30	35.00	36.50	59.00	11.00	47.50	70.00
58	58MM	78.00	82.50	37.00	41.50	59.00	11.00	52.50	70.00
60	60MM	80.00	85.50	38.00	41.50	59.00	11.00	52.50	70.00
65	65MM	85.00	90.30	40.00	41.50	69.00	11.00	52.50	80.00
68	68MM	90.00	94.00	40.00	41.50	68.70	11.30	52.50	80.00
70	70MM	92.00	97.00	40.00	48.70	68.70	11.30	60.00	80.00
75	75MM	97.00	102.00	40.00	48.00	68.70	11.30	60.00	80.00
80	80MM	105.00	109.50	40.00	48.00	78.00	12.00	60.00	90.00
85	85MM	110.00	116.70	41.00	46.00	76.00	14.00	60.00	90.00
90	90MM	115.00	122.30	45.00	51.00	76.00	14.00	65.00	90.00
95	95MM	120.00	127.60	46.00	51.00	76.00	14.00	65.00	90.00
100	100MM	125.00	132.00	47.00	51.00	76.00	14.00	65.00	90.00

## Abbey TY190L/ TY192L/TY193L



Robust rubber bellows seal with a wide non-DIN cross section, for optimum flexibility and durability. Fitted with a TY24 DIN long stationary.

### Abbey Standard sizes

Shaft	Size	OD1	OD2	OD3	L1	L12	L13	L2	L3	Slot Width	Slot Depth
10.00	10MM	21.00	16.40	20.00	14.50	25.90	33.40	8.60	15.00	4.00	5.00
12.00	12MM	23.00	18.40	23.20	15.00	25.90	33.40	8.60	15.00	4.00	5.00
14.00	14MM	25.00	20.40	27.10	17.00	28.40	33.40	8.60	15.00	4.00	5.00
15.00	15MM	27.00	22.40	28.00	17.00	28.40	33.40	8.60	15.00	4.00	5.00
16.00	16MM	27.00	22.40	27.10	17.00	28.40	33.40	8.60	15.00	4.00	5.00
18.00	18MM	33.00	26.60	31.00	19.50	30.00	37.50	10.00	17.00	4.00	5.50
20.00	20MM	35.00	28.60	36.00	21.50	30.00	37.50	10.00	17.00	4.00	5.50
22.00	22MM	37.00	30.60	36.00	21.50	30.00	37.50	10.00	17.00	4.00	5.50
24.00	24MM	39.00	32.60	40.50	22.50	32.50	42.50	10.00	17.00	4.00	5.50
25.00	25MM	40.00	33.60	41.00	23.00	32.50	42.50	10.00	17.00	4.00	5.50
28.00	28MM	43.00	36.60	47.00	26.50	35.00	42.50	10.00	17.00	4.00	5.50
30.00	30MM	45.00	38.60	47.00	26.50	35.00	42.50	10.00	17.00	4.00	5.50
32.00	32MM	48.00	41.60	51.00	27.50	35.00	47.50	10.00	17.00	4.00	5.50
33.00	33MM	48.00	41.60	51.00	27.50	35.00	47.50	10.00	17.00	4.00	5.50
35.00	35MM	50.00	43.80	55.00	28.50	35.00	47.50	10.00	17.00	4.00	5.50
38.00	38MM	56.00	48.80	57.30	30.00	36.00	46.00	10.00	18.00	5.00	5.50
40.00	40MM	58.00	50.80	60.00	30.00	36.00	46.00	10.00	18.00	5.00	5.50
43.00	43MM	61.00	53.80	62.20	30.00	36.00	51.00	11.00	18.00	5.00	5.50
45.00	45MM	63.00	55.80	64.30	30.00	36.00	51.00	11.00	18.00	5.00	5.50
48.00	48MM	66.00	58.80	69.00	30.50	36.00	51.00	11.00	18.00	5.00	5.50
50.00	50MM	70.00	61.30	70.20	30.50	38.00	50.50	13.00	20.00	5.00	5.50
53.00	53MM	73.00	64.30	76.00	33.00	36.50	59.00	13.00	20.00	5.00	5.50
55.00	55MM	75.00	66.30	78.00	35.00	36.50	59.00	13.00	20.00	5.00	5.50
58.00	58MM	78.00	69.30	82.00	37.00	41.50	59.00	13.00	20.00	5.00	5.50
60.00	60MM	80.00	71.30	85.00	38.00	41.50	59.00	13.00	20.00	5.00	5.50
65.00	65MM	85.00	76.30	90.00	40.00	41.50	69.00	13.00	20.00	5.00	5.50
68.00	68MM	90.00	80.50	94.00	40.00	41.50	68.70	15.30	22.00	5.00	5.50
70.00	70MM	92.00	82.60	97.00	40.00	48.70	68.70	15.30	22.00	5.00	5.50
75.00	75MM	97.00	87.60	102.00	40.00	48.00	68.70	15.30	22.00	5.00	5.50
80.00	80MM	105.00	94.70	106.50	40.00	48.00	78.00	15.70	23.00	5.00	5.50
85.00	85MM	110.00	99.70	117.00	41.00	46.00	76.00	15.70	23.00	5.00	5.50
90.00	90MM	115.00	104.70	126.00	45.00	51.00	76.00	15.70	23.00	5.00	5.50
95.00	95MM	120.00	109.70	130.00	46.00	51.00	76.00	15.70	23.00	5.00	5.50
100.00	100MM	125.00	114.70	130.00	47.00	51.00	76.00	15.70	23.00	5.00	5.50

#### Standard Face Materials

**Rotary:** Carbon, Silicon Carbide, Tungsten Carbide  
**Stat:** Ceramic, Silicon Carbide, Tungsten Carbide

#### Maximum Operating Limits

**PRESSURE** 200 psi      **SPEED** 20m/s  
**TEMPERATURE** -40<sup>0</sup> + 200<sup>0</sup> C  
 Dependent on shaft dia, Speed, Temp and Media to be sealed