

STANDARD SHAFT SEALS

TB2



DESCRIPTION

The TB2 profile is a shaft seal composed of a single external metal cage, a primary sealing lip with integrated spring and an additional anti-pollution lip.

ADVANTAGES

Good radial rigidity, particularly for large diameters

Good stability when assembled, preventing the bounce-back effect

Sealing for low and high viscosity fluids

Modern primary sealing lip with low radial forces

Protection against undesirable air contaminants

APPLICATIONS

Shaft sealing

Engines

Pumps

Transmissions

MATERIALS

Rubber

ACM 70 - 75 Shore A

EPDM 70 - 75 Shore A

FKM 70 - 75 Shore A

HNBR 70 - 75 Shore A

NBR 70 - 75 Shore A

Metal cage

Steel - AISI 1010

Stainless steel - AISI 304

Stainless steel - AISI 316

Spring

Steel - AISI 1070 - 1090

Stainless steel - AISI 316

SEAL DESIGN

Tolerance for the outside diameter of the seal (ØD)

Bore diameter ØD1 (mm)	Apparent metal cage	Rubber coating	Coating with grooves
ØD1 ≤ 50.0	+0.10 / +0.20	+0.15 / +0.30	+0.20 / +0.40
50.0 < ØD1 ≤ 80.0	+0.13 / +0.23	+0.20 / +0.35	+0.25 / +0.45
80.0 < ØD1 ≤ 120.0	+0.15 / +0.25	+0.20 / +0.35	+0.25 / +0.45
120.0 < ØD1 ≤ 180.0	+0.18 / +0.28	+0.25 / +0.45	+0.30 / +0.55
180.0 < ØD1 ≤ 300.0	+0.20 / +0.30	+0.25 / +0.45	+0.30 / +0.55
300.0 < ØD1 ≤ 500.0	+0.23 / +0.35	+0.30 / +0.55	+0.35 / +0.65
500.0 < ØD1 ≤ 630.0	+0.23 / +0.35	+0.35 / +0.65	+0.40 / +0.75

Roundness tolerance

Bore diameter ØD1 (mm)	Apparent metal cage	Rubber coating
ØD1 ≤ 50.0	0.18	0.25
50.0 < ØD1 ≤ 80.0	0.25	0.35
80.0 < ØD1 ≤ 120.0	0.30	0.50
120.0 < ØD1 ≤ 180.0	0.40	0.65
180.0 < ØD1 ≤ 300.0	0.25% of the outside diameter	0.80
300.0 < ØD1 ≤ 500.0	0.25% of the outside diameter	1.00
500.0 < ØD1 ≤ 630.0	-	-

Tolerance for the inside diameter of the seal (Ød)

Free and without constraint, the inside diameter of the sealing lip is always smaller than the diameter of the shaft. The pre-tightening or interference denotes the difference between these two values. Depending on the shaft diameter, the diameter of the sealing lip is generally considered to be less, between 0.8 and 3.5 mm.

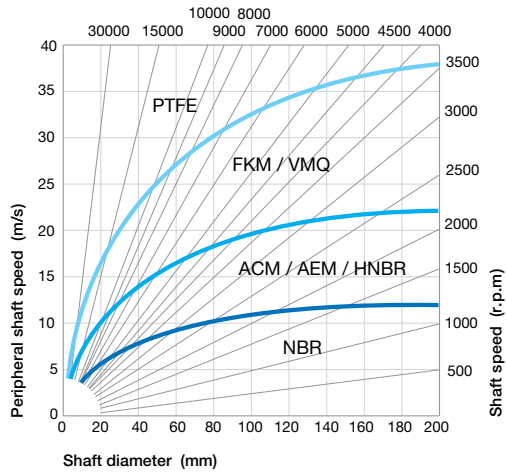
Pumping leads

Clockwise	Anti-clockwise	Bi-directional
R	L	H0

Other types of pumping leads can be created according to your specifications. Please contact our experts.

TECHNICAL DATA

Speed



The shaft seals with an additional protective lip are limited to a speed of 8 m/sec.

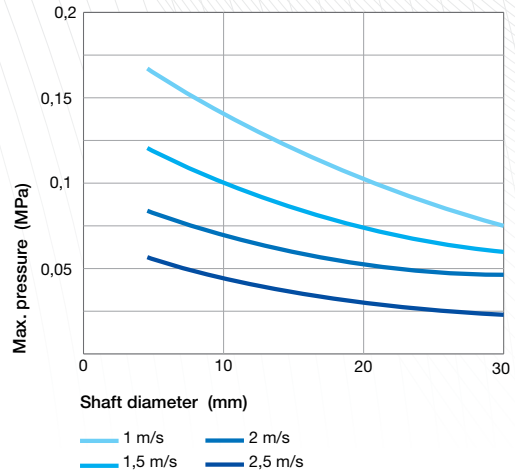
Linear speed calculation:

$$s \text{ (m/s)} = \frac{[\text{shaft } \varnothing \text{ (mm)} \times \text{speed (rpm)} \times \pi]}{60,000}$$

Pressure

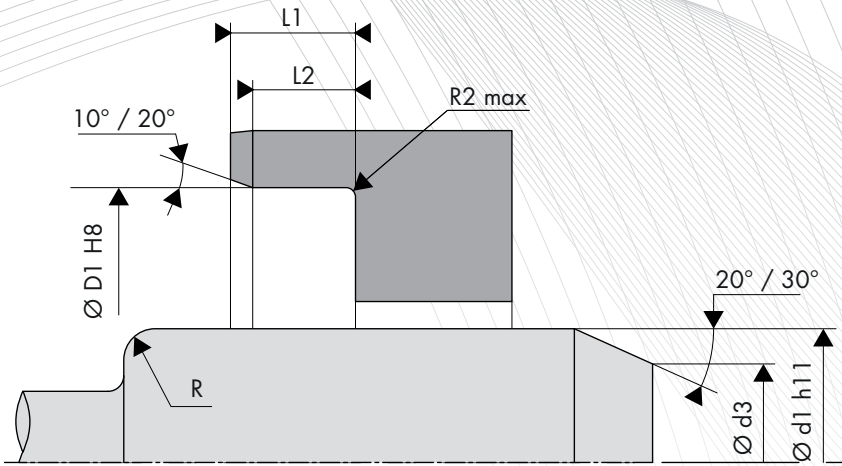
The standard shaft seals are generally used in unpressurised environments, or for pressures between 0.02 and 0.05 MPa maximum.

Higher pressures are acceptable, following testing, for standard NBR or FKM shaft seals used on a shaft of less than 30 mm.



Temperature / Media

Media		Maximum temperature depending on the materials						
		ACM	AEM	EPDM	FKM	HNBR	NBR	VMQ
Mineral oils	Oils for motors	+130°C	+130°C	-	+170°C	+130°C	+100°C	+150°C
	Oils for gearboxes	+120°C	+130°C	-	+150°C	+110°C	+80°C	+130°C
	Oils for hypoid gears	+120°C	+130°C	-	+150°C	+110°C	+80°C	-
	ATF oils	+120°C	+130°C	-	+170°C	+130°C	+100°C	-
	Hydraulic oils	+120°C	+130°C	-	+150°C	+130°C	+90°C	-
	Greases	-	+130°C	-	-	+100°C	+90°C	-
Fire-resistant fluids	HFA group - Emulsion with more than 80% water	-	-	-	-	+70°C	+70°C	+60°C
	HFB group - Opposite solution (water in oil)	-	-	-	-	+70°C	+70°C	+60°C
	HFC group - Polymer aqueous solution	-	-	+60°C	-	+70°C	+70°C	-
	HFD group - Water-free synthetic fluids	-	-	-	+150°C	-	-	-
Other fluids	EL + L heating oil	-	-	-	-	+100°C	+90°C	-
	Air	+150°C	+150°C	+150°C	+200°C	+130°C	+100°C	+200°C
	Water	-	-	+150°C	+100°C	+100°C	+90°C	-
	Water for washing	-	-	+130°C	+100°C	+100°C	+90°C	-
Temperature range	Min.	-25°C	-40°C	-45°C	-20°C	-30°C	-30°C	-60°C
	Max.	+150°C	+150°C	+150°C	+200°C	+150°C	+100°C	+200°C



SHAFT DESIGN

Shaft hardness

Rotation speed	Hardness in HRC
$s \leq 4.0 \text{ m/sec}$	45 HRC
$4.0 < s \leq 10.0 \text{ m/s}$	55 HRC
$s > 10.0 \text{ m/sec}$	60 HRC

Surface roughness

Ra *	0.2 to 0.8 μm
Rz	1.0 to 4.0 μm
Rmax	$\leq 6.3 \mu\text{m}$

*Ra = 0.1 μm for demanding applications

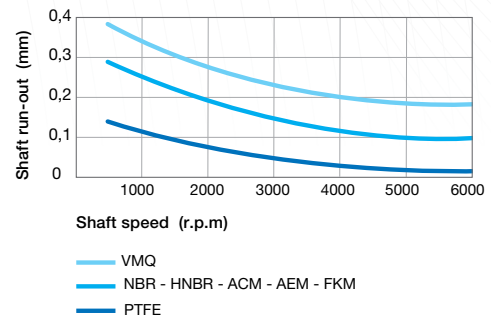
Shaft tolerance

Shaft diameter $\varnothing d1$ (mm)	Tolerance h11 (mm)
$\varnothing d1 \leq 3.0$	-0.060 / 0
$3.0 < \varnothing d1 \leq 6.0$	-0.075 / 0
$6.0 < \varnothing d1 \leq 10.0$	-0.090 / 0
$10.0 < \varnothing d1 \leq 18.0$	-0.110 / 0
$18.0 < \varnothing d1 \leq 30.0$	-0.130 / 0
$30.0 < \varnothing d1 \leq 50.0$	-0.160 / 0
$50.0 < \varnothing d1 \leq 80.0$	-0.190 / 0
$80.0 < \varnothing d1 \leq 120.0$	-0.220 / 0
$120.0 < \varnothing d1 \leq 180.0$	-0.250 / 0
$180.0 < \varnothing d1 \leq 250.0$	-0.290 / 0
$250.0 < \varnothing d1 \leq 315.0$	-0.320 / 0
$315.0 < \varnothing d1 \leq 400.0$	-0.360 / 0
$400.0 < \varnothing d1 \leq 500.0$	-0.400 / 0

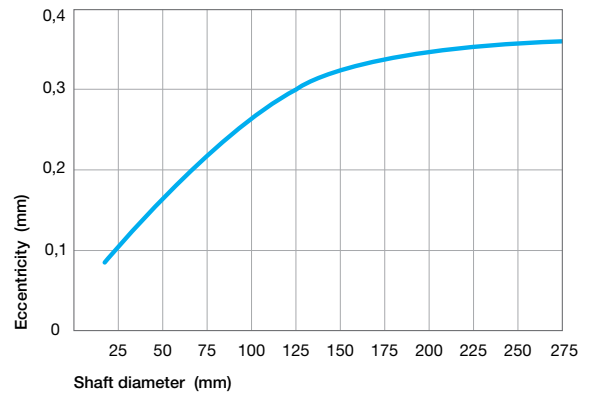
Chamfer and radius

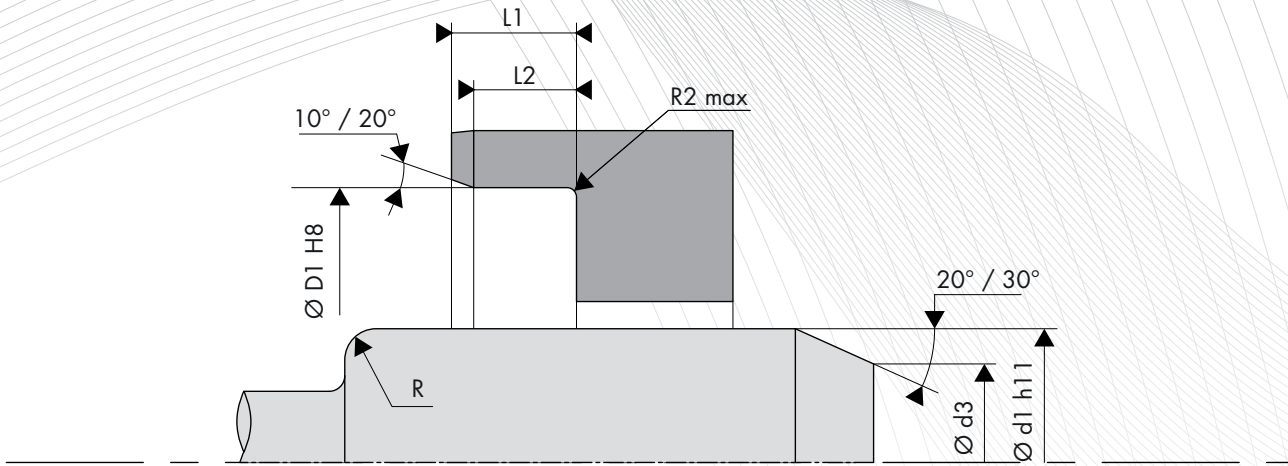
Shaft diameter $\varnothing d1$ (mm)	Chamfer diameter $\varnothing d3$ (mm)	Radius R (mm)
$\varnothing d1 \leq 10.0$	$\varnothing d1 - 1.50$	2.00
$10.0 < \varnothing d1 \leq 20.0$	$\varnothing d1 - 2.00$	2.00
$20.0 < \varnothing d1 \leq 30.0$	$\varnothing d1 - 2.50$	3.00
$30.0 < \varnothing d1 \leq 40.0$	$\varnothing d1 - 3.00$	3.00
$40.0 < \varnothing d1 \leq 50.0$	$\varnothing d1 - 3.50$	4.00
$50.0 < \varnothing d1 \leq 70.0$	$\varnothing d1 - 4.00$	4.00
$70.0 < \varnothing d1 \leq 95.0$	$\varnothing d1 - 4.50$	5.00
$95.0 < \varnothing d1 \leq 130.0$	$\varnothing d1 - 5.50$	6.00
$130.0 < \varnothing d1 \leq 240.0$	$\varnothing d1 - 7.00$	8.00
$240.0 < \varnothing d1 \leq 500.0$	$\varnothing d1 - 11.00$	12.00

Shaft run out



Eccentricity





HOUSING DESIGN

Surface roughness

Ra	0.8 to 3.2 μm
Rz	6.3 to 16.0 μm
Rmax	$\leq 16.0 \mu\text{m}$

Housing tolerance

Bore diameter $\varnothing D1$ (mm)	Tolerance H8 (mm)
$3.0 < \varnothing D1 \leq 6.0$	0 / +0.018
$6.0 < \varnothing D1 \leq 10.0$	0 / +0.022
$10.0 < \varnothing D1 \leq 18.0$	0 / +0.027
$18.0 < \varnothing D1 \leq 30.0$	0 / +0.033
$30.0 < \varnothing D1 \leq 50.0$	0 / +0.039
$50.0 < \varnothing D1 \leq 80.0$	0 / +0.046
$80.0 < \varnothing D1 \leq 120.0$	0 / +0.054
$120.0 < \varnothing D1 \leq 180.0$	0 / +0.063
$180.0 < \varnothing D1 \leq 250.0$	0 / +0.072
$250.0 < \varnothing D1 \leq 315.0$	0 / +0.081
$315.0 < \varnothing D1 \leq 400.0$	0 / +0.089
$400.0 < \varnothing D1 \leq 500.0$	0 / +0.097
$500.0 < \varnothing D1 \leq 630.0$	0 / +0.110

Housing radius and width

Height H1 (mm)	Width		Radius R2 max (mm)
	L2min (H1 x 0.85)	L1min (H1 x +0.3)	
7.00	5.95	7.30	0.50
8.00	6.80	8.30	
10.00	8.50	10.30	
12.00	10.30	12.30	0.70
15.00	12.75	15.30	
20.00	17.00	20.30	

DIMENSIONS

Part number	Shaft diameter Ød1 h11	Bore diameter ØD1 H8	Seal height H1
TB2 12 x 32 x 7	12.00	32.00	7.00
TB2 14 x 28 x 8	14.00	28.00	8.00
TB2 14 x 32 x 7	14.00	32.00	7.00
TB2 15 x 26 x 4	15.00	26.00	4.00
TB2 15 x 30 x 6	15.00	30.00	6.00
TB2 15 x 30 x 8	15.00	30.00	8.00
TB2 16 x 30 x 7	16.00	30.00	7.00
TB2 17 x 28 x 7	17.00	28.00	7.00
TB2 17 x 30 x 7	17.00	30.00	7.00
TB2 17 x 32 x 7	17.00	32.00	7.00
TB2 17 x 40 x 6	17.00	40.00	6.00
TB2 18 x 30 x 7	18.00	30.00	7.00
TB2 18 x 30 x 8	18.00	30.00	8.00
TB2 19 x 35 x 8	19.00	35.00	8.00
TB2 20 x 30 x 6	20.00	30.00	6.00
TB2 20 x 35 x 7	20.00	35.00	7.00
TB2 20 x 40 x 4	20.00	40.00	4.00
TB2 20 x 40 x 10	20.00	40.00	10.00
TB2 20 x 47 x 7	20.00	47.00	7.00
TB2 22 x 35 x 7	22.00	35.00	7.00
TB2 22 x 36 x 8	22.00	36.00	8.00
TB2 22 x 38 x 10	22.00	38.00	10.00
TB2 22 x 42 x 7	22.00	42.00	7.00
TB2 22 x 42 x 10	22.00	42.00	10.00
TB2 24 x 30 x 5	24.00	30.00	5.00
TB2 24 x 40 x 8	24.00	40.00	8.00
TB2 24 x 62 x 4.8	24.00	62.00	4.80
TB2 25 x 35 x 7	25.00	35.00	7.00
TB2 25 x 38 x 7	25.00	38.00	7.00
TB2 25 x 38 x 10	25.00	38.00	10.00
TB2 25 x 40 x 7	25.00	40.00	7.00
TB2 25 x 40 x 8	25.00	40.00	8.00
TB2 25 x 43 x 8	25.00	43.00	8.00
TB2 25 x 45 x 10	25.00	45.00	10.00
TB2 25 x 47 x 6	25.00	47.00	6.00
TB2 25 x 47 x 7	25.00	47.00	7.00
TB2 25 x 52 x 7.9	25.00	52.00	7.90
TB2 25 x 64 x 13	25.00	64.00	13.00
TB2 28 x 47 x 8	28.00	47.00	8.00
TB2 28 x 48 x 11	28.00	48.00	11.00
TB2 28 x 52 x 7	28.00	52.00	7.00
TB2 29 x 45 x 8	29.00	45.00	8.00
TB2 30 x 42 x 6	30.00	42.00	6.00
TB2 30 x 45 x 6	30.00	45.00	6.00
TB2 30 x 45 x 8	30.00	45.00	8.00
TB2 30 x 50 x 11	30.00	50.00	11.00
TB2 30 x 52 x 7	30.00	52.00	7.00
TB2 30 x 52 x 10	30.00	52.00	10.00
TB2 30 x 55 x 7	30.00	55.00	7.00
TB2 30 x 55 x 8	30.00	55.00	8.00
TB2 30 x 60 x 8	30.00	60.00	8.00
TB2 30 x 62 x 6	30.00	62.00	6.00
TB2 32 x 45 x 7	32.00	45.00	7.00
TB2 32 x 47 x 7	32.00	47.00	7.00
TB2 32 x 50 x 7	32.00	50.00	7.00
TB2 32 x 51 x 8	32.00	51.00	8.00
TB2 32 x 52 x 7	32.00	52.00	7.00
TB2 32 x 52 x 10	32.00	52.00	10.00
TB2 32 x 52 x 11	32.00	52.00	11.00
TB2 32 x 56 x 10	32.00	56.00	10.00
TB2 32 x 56 x 11	32.00	56.00	11.00
TB2 32 x 58 x 12	32.00	58.00	12.00

Part number	Shaft diameter Ød1 h11	Bore diameter ØD1 H8	Seal height H1
TB2 32 x 65 x 12	32.00	65.00	12.00
TB2 32 x 72 x 7	32.00	72.00	7.00
TB2 33 x 50 x 8	33.00	50.00	8.00
TB2 33 x 55 x 9.5	33.00	55.00	9.50
TB2 34 x 48 x 8	34.00	48.00	8.00
TB2 34 x 52 x 7	34.00	52.00	7.00
TB2 34 x 65 x 12	34.00	65.00	12.00
TB2 35 x 51 x 9	35.00	51.00	9.00
TB2 35 x 52 x 11	35.00	52.00	11.00
TB2 35 x 54 x 8	35.00	54.00	8.00
TB2 35 x 55 x 5	35.00	55.00	5.00
TB2 35 x 55 x 8	35.00	55.00	8.00
TB2 35 x 55 x 10	35.00	55.00	10.00
TB2 35 x 55 x 11	35.00	55.00	11.00
TB2 35 x 56 x 10	35.00	56.00	10.00
TB2 35 x 57 x 9	35.00	57.00	9.00
TB2 35 x 58 x 8	35.00	58.00	8.00
TB2 35 x 58 x 9	35.00	58.00	9.00
TB2 35 x 58 x 10	35.00	58.00	10.00
TB2 35 x 62 x 7	35.00	62.00	7.00
TB2 35 x 62 x 12	35.00	62.00	12.00
TB2 35 x 64 x 8	35.00	64.00	8.00
TB2 35 x 64 x 12	35.00	64.00	12.00
TB2 35 x 65 x 12	35.00	65.00	12.00
TB2 35 x 72 x 9.5	35.00	72.00	9.50
TB2 35 x 72 x 10	35.00	72.00	10.00
TB2 35 x 81 x 10	35.00	81.00	10.00
TB2 36 x 54 x 7	36.00	54.00	7.00
TB2 36 x 54 x 11	36.00	54.00	11.00
TB2 36 x 55 x 6.5	36.00	55.00	6.50
TB2 36 x 58 x 8	36.00	58.00	8.00
TB2 36 x 68 x 12	36.00	68.00	12.00
TB2 37 x 52 x 8	37.00	52.00	8.00
TB2 37 x 56 x 9	37.00	56.00	9.00
TB2 38 x 52 x 6	38.00	52.00	6.00
TB2 38 x 52 x 7	38.00	52.00	7.00
TB2 38 x 54 x 11	38.00	54.00	11.00
TB2 38 x 56 x 9	38.00	56.00	9.00
TB2 38 x 58 x 8	38.00	58.00	8.00
TB2 38 x 58 x 8.5	38.00	58.00	8.50
TB2 38 x 58 x 10.5	38.00	58.00	10.50
TB2 38 x 58 x 11	38.00	58.00	11.00
TB2 38 x 60 x 8	38.00	60.00	8.00
TB2 38 x 62 x 11	38.00	62.00	11.00
TB2 38 x 65 x 8	38.00	65.00	8.00
TB2 38 x 65 x 9	38.00	65.00	9.00
TB2 38 x 70 x 10	38.00	70.00	10.00
TB2 38 x 74 x 11	38.00	74.00	11.00
TB2 39 x 60 x 9	39.00	60.00	9.00
TB2 39 x 60 x 10	39.00	60.00	10.00
TB2 40 x 47 x 4	40.00	47.00	4.00
TB2 40 x 52 x 8	40.00	52.00	8.00
TB2 40 x 54 x 7	40.00	54.00	7.00
TB2 40 x 54 x 7.5	40.00	54.00	7.50
TB2 40 x 55 x 6.5	40.00	55.00	6.50
TB2 40 x 55 x 8	40.00	55.00	8.00
TB2 40 x 55 x 9	40.00	55.00	9.00
TB2 40 x 56 x 7	40.00	56.00	7.00
TB2 40 x 56 x 8	40.00	56.00	8.00
TB2 40 x 56 x 10	40.00	56.00	10.00
TB2 40 x 60 x 10	40.00	60.00	10.00
TB2 40 x 60 x 12	40.00	60.00	12.00

Part number	Shaft diameter Ød1 h11	Bore diameter ØD1 H8	Seal height H1
TB2 40 x 62 x 9	40.00	62.00	9.00
TB2 40 x 62 x 10	40.00	62.00	10.00
TB2 40 x 62 x 11	40.00	62.00	11.00
TB2 40 x 62 x 12	40.00	62.00	12.00
TB2 40 x 62 x 13	40.00	62.00	13.00
TB2 40 x 65 x 12	40.00	65.00	12.00
TB2 40 x 68 x 10	40.00	68.00	10.00
TB2 40 x 68 x 11	40.00	68.00	11.00
TB2 40 x 72 x 12	40.00	72.00	12.00
TB2 40 x 80 x 10	40.00	80.00	10.00
TB2 40 x 85 x 11	40.00	85.00	11.00
TB2 40 x 86 x 10	40.00	86.00	10.00
TB2 41 x 61 x 9	41.00	61.00	9.00
TB2 41 x 65 x 10	41.00	65.00	10.00
TB2 42 x 55 x 6	42.00	55.00	6.00
TB2 42 x 55 x 7	42.00	55.00	7.00
TB2 42 x 55 x 8	42.00	55.00	8.00
TB2 42 x 55 x 9	42.00	55.00	9.00
TB2 42 x 56 x 7	42.00	56.00	7.00
TB2 42 x 58 x 8	42.00	58.00	8.00
TB2 42 x 60 x 9	42.00	60.00	9.00
TB2 42 x 62 x 7	42.00	62.00	7.00
TB2 42 x 64 x 10	42.00	64.00	10.00
TB2 42 x 65 x 12	42.00	65.00	12.00
TB2 42 x 72 x 12	42.00	72.00	12.00
TB2 43 x 59 x 7	43.00	59.00	7.00
TB2 43 x 63 x 7	43.00	63.00	7.00
TB2 43 x 63 x 9	43.00	63.00	9.00
TB2 44 x 60 x 10	44.00	60.00	10.00
TB2 44 x 72 x 8	44.00	72.00	8.00
TB2 45 x 58 x 9	45.00	58.00	9.00
TB2 45 x 59 x 10	45.00	59.00	10.00
TB2 45 x 60 x 9	45.00	60.00	9.00
TB2 45 x 62 x 7	45.00	62.00	7.00
TB2 45 x 62 x 9	45.00	62.00	9.00
TB2 45 x 63 x 7	45.00	63.00	7.00
TB2 45 x 65 x 5	45.00	65.00	5.00
TB2 45 x 65 x 8	45.00	65.00	8.00
TB2 45 x 65 x 9	45.00	65.00	9.00
TB2 45 x 65 x 10	45.00	65.00	10.00
TB2 45 x 65 x 12	45.00	65.00	12.00
TB2 45 x 68 x 11	45.00	68.00	11.00
TB2 45 x 68 x 12	45.00	68.00	12.00
TB2 45 x 72 x 10	45.00	72.00	10.00
TB2 45 x 72 x 12	45.00	72.00	12.00
TB2 45 x 75 x 12	45.00	75.00	12.00
TB2 45 x 78 x 12	45.00	78.00	12.00
TB2 46 x 78 x 10	46.00	78.00	10.00
TB2 47 x 68 x 10	47.00	68.00	10.00
TB2 48 x 62 x 7	48.00	62.00	7.00
TB2 48 x 62 x 8	48.00	62.00	8.00
TB2 48 x 62 x 9	48.00	62.00	9.00
TB2 48 x 63 x 9	48.00	63.00	9.00
TB2 48 x 64 x 12	48.00	64.00	12.00
TB2 48 x 65 x 9	48.00	65.00	9.00
TB2 48 x 65 x 10	48.00	65.00	10.00
TB2 48 x 69 x 10	48.00	69.00	10.00
TB2 48 x 70 x 9.5	48.00	70.00	9.50
TB2 48 x 70 x 12	48.00	70.00	12.00
TB2 48 x 70 x 13	48.00	70.00	13.00
TB2 48 x 72 x 7	48.00	72.00	7.00
TB2 48 x 73 x 7	48.00	73.00	7.00

Part number	Shaft diameter Ød1 h11	Bore diameter ØD1 H8	Seal height H1
TB2 48 x 74 x 11	48.00	74.00	11.00
TB2 48 x 82 x 12	48.00	82.00	12.00
TB2 50 x 68 x 7	50.00	68.00	7.00
TB2 50 x 68 x 9	50.00	68.00	9.00
TB2 50 x 69 x 10	50.00	69.00	10.00
TB2 50 x 70 x 7	50.00	70.00	7.00
TB2 50 x 70 x 9	50.00	70.00	9.00
TB2 50 x 70 x 10	50.00	70.00	10.00
TB2 50 x 70 x 12	50.00	70.00	12.00
TB2 50 x 72 x 8	50.00	72.00	8.00
TB2 50 x 72 x 10	50.00	72.00	10.00
TB2 50 x 72 x 12	50.00	72.00	12.00
TB2 50 x 80 x 10	50.00	80.00	10.00
TB2 50 x 80 x 13	50.00	80.00	13.00
TB2 50 x 81 x 13	50.00	81.00	13.00
TB2 50 x 90 x 10	50.00	90.00	10.00
TB2 51 x 63 x 8	51.00	63.00	8.00
TB2 51 x 72 x 10	51.00	72.00	10.00
TB2 52 x 62 x 9	52.00	62.00	9.00
TB2 52 x 63 x 8	52.00	63.00	8.00
TB2 52 x 68 x 8	52.00	68.00	8.00
TB2 52 x 68 x 13.5	52.00	68.00	13.50
TB2 52 x 70 x 9	52.00	70.00	9.00
TB2 52 x 70 x 10	52.00	70.00	10.00
TB2 52 x 72 x 7	52.00	72.00	7.00
TB2 52 x 72 x 8	52.00	72.00	8.00
TB2 52 x 72 x 10	52.00	72.00	10.00
TB2 52 x 72 x 12	52.00	72.00	12.00
TB2 52 x 73 x 10	52.00	73.00	10.00
TB2 52 x 75 x 12	52.00	75.00	12.00
TB2 52 x 82 x 8	52.00	82.00	8.00
TB2 54 x 70 x 9.5	54.00	70.00	9.50
TB2 54 x 73 x 10	54.00	73.00	10.00
TB2 54 x 81 x 10	54.00	81.00	10.00
TB2 55 x 70 x 8	55.00	70.00	8.00
TB2 55 x 72 x 9	55.00	72.00	9.00
TB2 55 x 72 x 12	55.00	72.00	12.00
TB2 55 x 75 x 9	55.00	75.00	9.00
TB2 55 x 75 x 10	55.00	75.00	10.00
TB2 55 x 77 x 9	55.00	77.00	9.00
TB2 55 x 78 x 12	55.00	78.00	12.00
TB2 55 x 80 x 8	55.00	80.00	8.00
TB2 55 x 80 x 10	55.00	80.00	10.00
TB2 55 x 82 x 10	55.00	82.00	10.00
TB2 55 x 95 x 10	55.00	95.00	10.00
TB2 56 x 73 x 6	56.00	73.00	6.00
TB2 56 x 81 x 8	56.00	81.00	8.00
TB2 57 x 84 x 8	57.00	84.00	8.00
TB2 58 x 68 x 6	58.00	68.00	6.00
TB2 58 x 72 x 7	58.00	72.00	7.00
TB2 58 x 80 x 12	58.00	80.00	12.00
TB2 58 x 85 x 8	58.00	85.00	8.00
TB2 58 x 102 x 9	58.00	102.00	9.00
TB2 58 x 102 x 10	58.00	102.00	10.00
TB2 58 x 102 x 12	58.00	102.00	12.00
TB2 59 x 75 x 10	59.00	75.00	10.00
TB2 60 x 77 x 12	60.00	77.00	12.00
TB2 60 x 78 x 9	60.00	78.00	9.00
TB2 60 x 80 x 8	60.00	80.00	8.00
TB2 60 x 80 x 10	60.00	80.00	10.00
TB2 60 x 80 x 12	60.00	80.00	12.00
TB2 60 x 82 x 9	60.00	82.00	9.00

Part number	Shaft diameter Ød1 h11	Bore diameter ØD1 H8	Seal height H1
TB2 60 x 82 x 12	60.00	82.00	12.00
TB2 62 x 80 x 10	62.00	80.00	10.00
TB2 62 x 82 x 11	62.00	82.00	11.00
TB2 62 x 85 x 8	62.00	85.00	8.00
TB2 62 x 85 x 9	62.00	85.00	9.00
TB2 62 x 85 x 10	62.00	85.00	10.00
TB2 62 x 85 x 12	62.00	85.00	12.00
TB2 62 x 100 x 12	62.00	100.00	12.00
TB2 63 x 80 x 7.7	63.00	80.00	7.70
TB2 63 x 80 x 12	63.00	80.00	12.00
TB2 64 x 80 x 8	64.00	80.00	8.00
TB2 65 x 77 x 7.5	65.00	77.00	7.50
TB2 65 x 85 x 10	65.00	85.00	10.00
TB2 65 x 85 x 13	65.00	85.00	13.00
TB2 65 x 88 x 12	65.00	88.00	12.00
TB2 65 x 88 x 13	65.00	88.00	13.00
TB2 65 x 90 x 10	65.00	90.00	10.00
TB2 65 x 90 x 13	65.00	90.00	13.00
TB2 65 x 90 x 15	65.00	90.00	15.00
TB2 65 x 92 x 12	65.00	92.00	12.00
TB2 65 x 92 x 13	65.00	92.00	13.00
TB2 65 x 95 x 14	65.00	95.00	14.00
TB2 65 x 100 x 12	65.00	100.00	12.00
TB2 65 x 110 x 10	65.00	110.00	10.00
TB2 68 x 85 x 8	68.00	85.00	8.00
TB2 68 x 88 x 10	68.00	88.00	10.00
TB2 68 x 90 x 10	68.00	90.00	10.00
TB2 68 x 90 x 12	68.00	90.00	12.00
TB2 68 x 90 x 14	68.00	90.00	14.00
TB2 68 x 92 x 12	68.00	92.00	12.00
TB2 68 x 95 x 13	68.00	95.00	13.00
TB2 69 x 85 x 10	69.00	85.00	10.00
TB2 70 x 85 x 8	70.00	85.00	8.00
TB2 70 x 90 x 10	70.00	90.00	10.00
TB2 70 x 90 x 13.5	70.00	90.00	13.50
TB2 70 x 90 x 15	70.00	90.00	15.00
TB2 70 x 95 x 13	70.00	95.00	13.00
TB2 70 x 100 x 12	70.00	100.00	12.00
TB2 70 x 100 x 13	70.00	100.00	13.00
TB2 70 x 100 x 14	70.00	100.00	14.00
TB2 72 x 90 x 8	72.00	90.00	8.00
TB2 72 x 94 x 8	72.00	94.00	8.00
TB2 72 x 94 x 10	72.00	94.00	10.00
TB2 72 x 102 x 15	72.00	102.00	15.00
TB2 72 x 105 x 13	72.00	105.00	13.00
TB2 73 x 90 x 8	73.00	90.00	8.00
TB2 73 x 100 x 10	73.00	100.00	10.00
TB2 74 x 100 x 10	74.00	100.00	10.00
TB2 75 x 95 x 7	75.00	95.00	7.00
TB2 75 x 95 x 10	75.00	95.00	10.00
TB2 75 x 96 x 11.2	75.00	96.00	11.20
TB2 75 x 100 x 10	75.00	100.00	10.00
TB2 75 x 100 x 12	75.00	100.00	12.00
TB2 75 x 100 x 13	75.00	100.00	13.00
TB2 75 x 102 x 13	75.00	102.00	13.00
TB2 75 x 105 x 13	75.00	105.00	13.00
TB2 75 x 105 x 15	75.00	105.00	15.00
TB2 75 x 110 x 13	75.00	110.00	13.00
TB2 75 x 112 x 12	75.00	112.00	12.00
TB2 75 x 121 x 13	75.00	121.00	13.00
TB2 77 x 100 x 13	77.00	100.00	13.00
TB2 80 x 100 x 10	80.00	100.00	10.00

Part number	Shaft diameter Ød1 h11	Bore diameter ØD1 H8	Seal height H1
TB2 80 x 100 x 12	80.00	100.00	12.00
TB2 80 x 100 x 13	80.00	100.00	13.00
TB2 80 x 105 x 13	80.00	105.00	13.00
TB2 80 x 105 x 15	80.00	105.00	15.00
TB2 80 x 110 x 13	80.00	110.00	13.00
TB2 80 x 115 x 15	80.00	115.00	15.00
TB2 80 x 120 x 13	80.00	120.00	13.00
TB2 85 x 105 x 10	85.00	105.00	10.00
TB2 85 x 110 x 13	85.00	110.00	13.00
TB2 85 x 110 x 14	85.00	110.00	14.00
TB2 90 x 115 x 12.4	90.00	115.00	12.40
TB2 90 x 115 x 13	90.00	115.00	13.00
TB2 90 x 118 x 12	90.00	118.00	12.00
TB2 90 x 120 x 13	90.00	120.00	13.00
TB2 90 x 125 x 17	90.00	125.00	17.00
TB2 90 x 127 x 13	90.00	127.00	13.00
TB2 91 x 111 x 10	91.00	111.00	10.00
TB2 95 x 115 x 12	95.00	115.00	12.00
TB2 95 x 118 x 11	95.00	118.00	11.00
TB2 95 x 120 x 13	95.00	120.00	13.00
TB2 95 x 125 x 13	95.00	125.00	13.00
TB2 95 x 127 x 13	95.00	127.00	13.00
TB2 95 x 130 x 13	95.00	130.00	13.00
TB2 100 x 125 x 13	100.00	125.00	13.00
TB2 100 x 127 x 13	100.00	127.00	13.00
TB2 105 x 125 x 16	105.00	125.00	16.00
TB2 105 x 135 x 14	105.00	135.00	14.00
TB2 110 x 135 x 13	110.00	135.00	13.00
TB2 110 x 135 x 14	110.00	135.00	14.00
TB2 110 x 140 x 14	110.00	140.00	14.00
TB2 114 x 135 x 13	114.00	135.00	13.00
TB2 115 x 140 x 10	115.00	140.00	10.00
TB2 115 x 140 x 13	115.00	140.00	13.00
TB2 115 x 145 x 14	115.00	145.00	14.00
TB2 115 x 150 x 16	115.00	150.00	16.00
TB2 118 x 140 x 13	118.00	140.00	13.00
TB2 118 x 148 x 15	118.00	148.00	15.00
TB2 120 x 150 x 14	120.00	150.00	14.00
TB2 125 x 150 x 14	125.00	150.00	14.00
TB2 125 x 155 x 14	125.00	155.00	14.00
TB2 125 x 170 x 12	125.00	170.00	12.00
TB2 130 x 150 x 10	130.00	150.00	10.00
TB2 130 x 160 x 14	130.00	160.00	14.00
TB2 135 x 162 x 13	135.00	162.00	13.00
TB2 135 x 165 x 14	135.00	165.00	14.00
TB2 139 x 170 x 14	139.00	170.00	14.00
TB2 140 x 170 x 14	140.00	170.00	14.00
TB2 140 x 180 x 15	140.00	180.00	15.00
TB2 140 x 180 x 16	140.00	180.00	16.00
TB2 142 x 168 x 14	142.00	168.00	14.00
TB2 143 x 165 x 10	143.00	165.00	10.00
TB2 143 x 168 x 16	143.00	168.00	16.00
TB2 145 x 170 x 13	145.00	170.00	13.00
TB2 145 x 175 x 8	145.00	175.00	8.00
TB2 145 x 175 x 14	145.00	175.00	14.00
TB2 150 x 175 x 10	150.00	175.00	10.00
TB2 150 x 180 x 14	150.00	180.00	14.00
TB2 155 x 185 x 14	155.00	185.00	14.00
TB2 155 x 200 x 20	155.00	200.00	20.00
TB2 160 x 180 x 15	160.00	180.00	15.00
TB2 170 x 200 x 16	170.00	200.00	16.00
TB2 170 x 205 x 16	170.00	205.00	16.00