



SBT consists of a primary nitrile rubber sealing ring and a secondary polyurethane sealing ring.

Hybrid rod seals incorporate dynamic sealing lips of different materials. This material combination provides a hybrid seal with the functional benefit of each material and, therefore, a robust rod seal. An example is the sealing ability and resilience of nitrile rubber (NBR) combined with the extrusion and wear resistance of polyurethane (PU).

SBT profiles combine an NBR primary sealing ring with a PU secondary sealing ring into one seal. This combination provides a good **low temperature resilience** and is suitable for pressures up to 40 MPa in medium to heavy duty applications.

These HS24 hybrid rod seals have been proven successful in low temperature applications. The NBR primary lips also provide improved long term sealing performance and a better capability to larger radial deflections.

Operating conditions	
Pressure	≤ 40 MPa
Temperature	-55°C to 100°C
Speed	≤ 1 m/s

Materials	
Seal ①	TNBR 70 Sh A
Anti-extrusion ring ②	PU 95 Sh A

Assembly	
In closed grooves A	
In open grooves B	

Advantages	
Seal for low temperatures	
Efficient sealing at low pressure	
Low friction	
Suitable for medium to heavy duty applications	
Easy to fit	

Please contact us for applications approaching maximum values.

Pressure (MPa)	e (mm)	
	d ≤ 60 mm	d > 60 mm
5	≤ 0,4	≤ 0,5
10	≤ 0,3	≤ 0,4
20	≤ 0,2	≤ 0,3
30	≤ 0,15	≤ 0,2
40	≤ 0,1	≤ 0,15

d	D	L	Reference
25	33	7,5	SBT-2533
30	40	10	SBT-3040
35	45	10	SBT-3545
40	50	10	SBT-4050
45	55	10	SBT-4555
50	60	10	SBT-5060
55	65	10	SBT-5565
60	70	10	SBT-6070
65	75	10	SBT-6575
70	80	10	SBT-7080
75	85	10	SBT-7585
80	90	10	SBT-8090
85	100	13,5	SBT-85100
90	105	13	SBT-90105
100	115	13	SBT-100115
105	120	13	SBT-105120