



Max. Operating Conditions	
Pressure (MPa)	≤ 45 (450 bar)
Temperature (°C)	- 40 / + 110
Speed (m/s)	≤ 0,5
Media:	Hydraulic fluids upon oil-basis, hardly inflaming hydraulic fluids, HFA-, HFB-Liquids

Recommended Surface Finish		
Surface roughness	R_a	R_t
Groove bottom	≤ 1,6 μm	≤ 16 μm
Groove flanks	≤ 1,6 μm	≤ 16 μm
Running surface	≤ 0,3 μm	≤ 3 μm

Material	
Polyurethane	PU

Technical Description

The rod seal of the **T12** series is a specially shaped compact polyurethane groove ring.

The geometric layout of the seal and the additional supporting edge on inside diameter provide for secure performance of the compact groove ring with low frictional losses.

The extrusion of the seal into the gap is prevented by the fitted anti-extrusion ring.

The rod seal is designed for the wide range of applications in mobile and stationary hydraulics.

Pressure MPa (bar)	Gap dim. s (mm)
10 (100)	0,50
20 (200)	0,40
25 (250)	0,35
30 (300)	0,25
40 (400)	0,20

Type designation	∅ d	∅ D	L
T12 - 40 - 50	40	50,0	8,0
T12 - 45 - 55	45	55,0	8,0
T12 - 50 - 65	50	65,0	12,5
T12 - 56 - 71	56	71,0	12,5
T12 - 60 - 75	60	75,0	13,0
T12 - 63 - 78/1	63	78,0	6,3
T12 - 63 - 78	63	78,0	12,5
T12 - 65 - 80	65	80,0	13,0
T12 - 70 - 85	70	85,0	12,5
T12 - 75 - 90	75	90,0	13,0
T12 - 75 - 90,5	75	90,5	6,3
T12 - 80 - 95	80	95,0	12,5
T12 - 80 - 95	80	95,0	6,3
T12 - 82,55 - 98,2	82,55	98,2	13,0
T12 - 85 - 100	85	100,0	13,0
T12 - 85 - 100,5	85	100,5	6,3
T12 - 90 - 105	90	105,0	6,3
T12 - 90 - 105/1	90	105,0	13,0
T12 - 95 - 110	95	110,0	13,0
T12 - 100 - 120	100	120,0	16,0
T12 - 106 - 121,5	106	121,5	6,3
T12 - 110 - 130	110	130,0	16,0
T12 - 115 - 130	115	130,0	13,0
T12 - 117 - 132	117	132,0	10,0
T12 - 120 - 135	120	135,0	16,0
T12 - 125 - 140,5	125	140,5	6,3
T12 - 125 - 145	125	145,0	16,0
T12 - 130 - 150,6	130	150,6	7,9

	Rod Seal Type	Dimension	Material
Ordering example:	Rod Seal	∅ d 40 x 50 x 8	Polyurethane
Order designation:	T12 -	40 x 50,0 x 8,0	- PU

Designation of material: **PU** - Polyurethane

Type designation	∅ d	∅ D	L
T12 - 140 - 160	140	160,0	16,0
T12 - 145 - 165,6	145	165,6	7,9
T12 - 160 - 180,5	160	180,5	7,5
T12 - 180 - 205	180	205,0	20,0

Further dimension and in-between sizes upon request.