



ODS-T seal has been developed to be used as a valid alternative for O-ring in heavy duty applications to avoid the extrusion and damage which normally occur in the presence of large gaps or high pressure.

It is a static (preferable) seal energised by pressure and can work as a single or double acting sealing element. The radial sealing forces, which guarantee good sealing performance, increase when the pressure rises.

Thanks to its elasticity, it can be installed **very easily** in a short time and without any auxiliaries.

The material used for most dimensions is a polyurethane compound for **extreme temperatures** that ensure excellent properties on wear-resistance, extended service life and resistance against extrusion.

Operating conditions

Pressure	≤ 50 MPa
Temperature	
PU33	-40 to 120°C
PU18	-30 to 90°C

Materials

Polyurethane 92 Sh A	PU33: dark green
Polyurethane 94 Sh A	PU18: green

Assembly

Replaces O-ring without back-up

Advantages

The **depths** and **widths** of the grooves of O-rings do not always meet the ISO standard. For O-rings with a cross section of 3,53 mm the groove depth can vary **from 2,70 (ISO norm) to 3,10 mm** and the widths **from 4,00 to 4,70 mm (ISO norm)**.

For this reason SEALS24 has developed a new universal static seal : the **ODS-T** which advantageously replaces the O-ring in all common and more complicated applications.

The **ODS-T** profile has the following advantages:

- Compact and interchangeable with O-ring
- Exceptional resistance to **extrusion**
- Reliable for **depths** and **widths** range according the tables thereafter
- Easy and safe installation
- The clearance between the parts can be **larger**
- Available for a **wide range** of bores (from 40 up to 200 mm)
- The anti-extrusion ring is **not needed**
- Very efficient for **repairs and new constructions** (in the case of new constructions: use the ISO dimensions for the groove)
- Contact us for dynamic sealing applications

Please contact us for applications approaching maximum values.

Pressure (MPa)	5	10	20	30	40	50
e max (mm)	0,6	0,4	0,2	0,12	0,08	0,05

XS cross section	D	g	L	PU	Reference
2,62	25 to 26	2 to 2,25	3,1 to 3,6	PU33	ODS-25-T
	30 to 31	2 to 2,25	3,1 to 3,6	PU33	ODS-30-T
	35 to 36	2 to 2,25	3,1 to 3,6	PU33	ODS-35-T
3,53	40 to 41,9	2,7 to 3,1	4 to 4,8	PU33	ODS-40-T
	42 to 43,9	2,7 to 3,1	4 to 4,8	PU18	ODS-42-T
	44 to 45,9	2,7 to 3,1	4 to 4,8	PU18	ODS-44-T
	46 to 47,9	2,7 to 3,1	4 to 4,8	PU18	ODS-46-T
	48 to 49,9	2,7 to 3,1	4 to 4,8	PU18	ODS-48-T
	50 to 52,9	2,7 to 3,1	4 to 4,8	PU33	ODS-50-T
	53 to 55,9	2,7 to 3,1	4 to 4,8	PU18	ODS-53-T
	56 to 59,9	2,7 to 3,1	4 to 4,8	PU18	ODS-56-T
	60 to 62,9	2,7 to 3,1	4 to 4,8	PU33	ODS-60-T
	63 to 65,9	2,7 to 3,1	4 to 4,8	PU33	ODS-63-T
5,34	66 to 69,9	2,7 to 3,1	4 to 4,8	PU18	ODS-66-T
	70 to 72,9	2,7 to 3,1	4 to 4,8	PU33	ODS-70-T
	73 to 75,9	2,7 to 3,1	4 to 4,8	PU18	ODS-73-T
	76 to 79,9	2,7 to 3,1	4 to 4,8	PU18	ODS-76-T
	80 to 84	2,7 to 3,1	4 to 4,8	PU33	ODS-80-T
	80 to 84,9	4,3 to 4,7	5,9 to 7,1	PU33	ODS-80-T
	85 to 89,9	4,3 to 4,7	5,9 to 7,1	PU18	ODS-85-T
	90 to 94,9	4,3 to 4,7	5,9 to 7,1	PU33	ODS-90-T
	95 to 99,9	4,3 to 4,7	5,9 to 7,1	PU18	ODS-95-T
	100 to 104,9	4,3 to 4,7	5,9 to 7,1	PU33	ODS-100-T
105 to 109,9	4,3 to 4,7	5,9 to 7,1	PU18	ODS-105-T	
110 to 114,9	4,3 to 4,7	5,9 to 7,1	PU33	ODS-110-T	
115 to 119,9	4,3 to 4,7	5,9 to 7,1	PU18	ODS-115-T	
120 to 124,9	4,3 to 4,7	5,9 to 7,1	PU18	ODS-120-T	
125 to 129,9	4,3 to 4,7	5,9 to 7,1	PU18	ODS-125-T	
130 to 135,9	4,3 to 4,7	5,9 to 7,1	PU18	ODS-130-T	
136 to 142,9	4,3 to 4,7	5,9 to 7,1	PU18	ODS-136-T	
143 to 149,9	4,3 to 4,7	5,9 to 7,1	PU18	ODS-143-T	
150 to 157,9	4,3 to 4,7	5,9 to 7,1	PU18	ODS-150-T	
158 to 165,9	4,3 to 4,7	5,9 to 7,1	PU18	ODS-158-T	
166 to 173,9	4,3 to 4,7	5,9 to 7,1	PU18	ODS-166-T	
174 to 181,9	4,3 to 4,7	5,9 to 7,1	PU18	ODS-174-T	
182 to 189,9	4,3 to 4,7	5,9 to 7,1	PU18	ODS-182-T	
190 to 199,9	4,3 to 4,7	5,9 to 7,1	PU18	ODS-190-T	
200 to 210	4,3 to 4,7	5,9 to 7,1	PU18	ODS-200-T	