



## TECHNICAL INFORMATION

# Static Seals | Turcon® Variseal® HF for External pressure

### Description

Turcon® Variseal® HF is the standard seal for axial (face) applications. It has a high spring loading, which gives excellent sealing integrity at low pressure and is available for both internal

and external pressure.

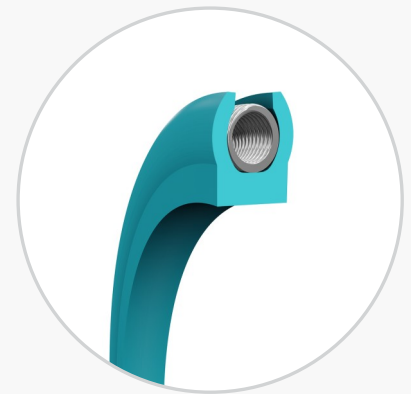
The heavy helical spring in Variseal® HF makes it the best choice for vacuum, gas and low temperature flange sealing applications.

### Areas of application

- Compressor housings
- Construction equipment and plant
- Chemical processing
- Crude oil and natural gas installations
- Cryogenic engineering
- Nuclear power
- Vacuum applications
- Pivot joints

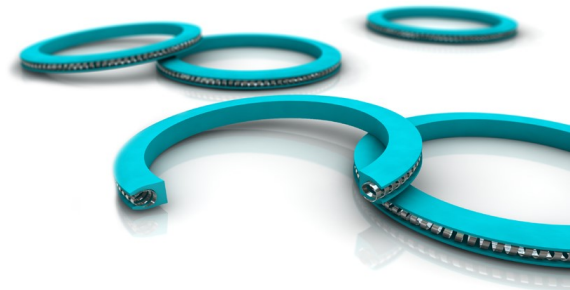
### Advantages

- High sealing pressure
- Excellent sealing integrity in gas and fluid applications
- Withstands rapid changes in temperature
- Good sealing when surfaces are not good
- Easy installation
- Unlimited shelf life



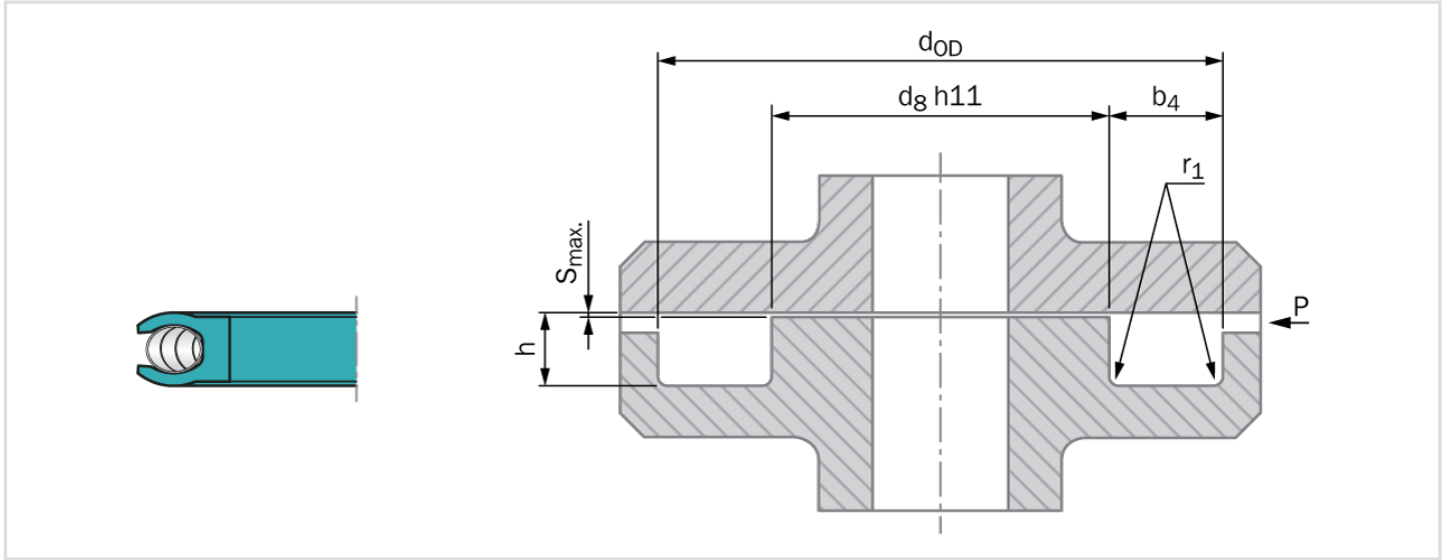
### Technical Data

Operating pressure	:	Maximum static load	:	60 MPa
		Maximum dynamic load	:	20 MPa
Speed	:	Static to slow rotating or pivoting movements		
Temperature	:	-150 °C to +200 °C		
Media compatibility	:	Virtually all fluids, chemicals and gases		



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### Installation dimensions - Standard recommendations

Series Number	Groove Inside Diameter $d_8$ h11		Groove Depth		Groove Width $b_4$ min.	Radius $r_1$ max.	Axial Clearance $S_{max.}$			
	Standard Range	Extended Range	$h$				2 MPa	10 MPa	20 MPa	40 MPa
DVL0	3.0 - 9.9	3.0 - 40.0	1.45	+0.03	2.40	0.40	0.20	0.10	0.08	0.05
DVL1	10.0 - 19.9	8.0 - 200.0	2.25	+0.05	3.60	0.40	0.25	0.15	0.10	0.07
DVL2	20.0 - 39.9	12.0 - 400.0	3.10	+0.08	4.80	0.60	0.35	0.20	0.15	0.08
DVL3	40.0 - 119.9	20.0 - 700.0	4.70	+0.10	7.10	0.80	0.50	0.25	0.20	0.10
DVL4	120.0 - 999.9	35.0 - 1600.0	6.10	+0.15	9.50	0.80	0.60	0.30	0.25	0.12
DVL5	1000.0 - 2500.9	80.0 - 2500.0	9.50	+0.20	15.00	0.80	0.90	0.50	0.40	0.20

### Important Note

Installation suggestions, material recommendations, parameters and further data provided are always subject to the particular field of use and the application in which the seal is intended to be used, in particular the interaction of the seal with other components of the application. Therefore they neither constitute an agreement on the legal and factual nature nor a guarantee of quality. Technical changes and errors remain reserved.