



# Seal-Scraper - Type AWNS

## Seal-Scraper type AWNS

### Description

Asymmetric lip seal with sealing lip and scraper lip. Small groove dimensions and double function allow space and cost savings.

### Technical data

Operating pressure: 1.6 MPa

Speed:  $\leq 1$  m/s

Temperature: from -40 °C to +80 °C

Media: oil free air (initial grease lubrication required), lubricated air, nonaggressive gas

### Material

Standard polyurethane with fair performance level.

Standard Material: Polyurethane, 90 Shore A, Material No.: WU9E1

### Installation

Installation into split grooves or in closed grooves (above rod diameter 12). It is important to remove all sharp edges and burrs from the groove and rod before installation.

### Ordering example

Seal-scraper,  
type AWNS  
Rod diameter: d = 20 mm  
Groove width: L = 7 mm  
TSS Part No.: AWNS10200 (Table XXVIII)  
Material No. WU9E1

TSS Article No.	AWNS1	0200	-	WU9E1
TSS Series No.				
Rod diameter x 10				
Material Code				



## Installation recommendation, type AWNS

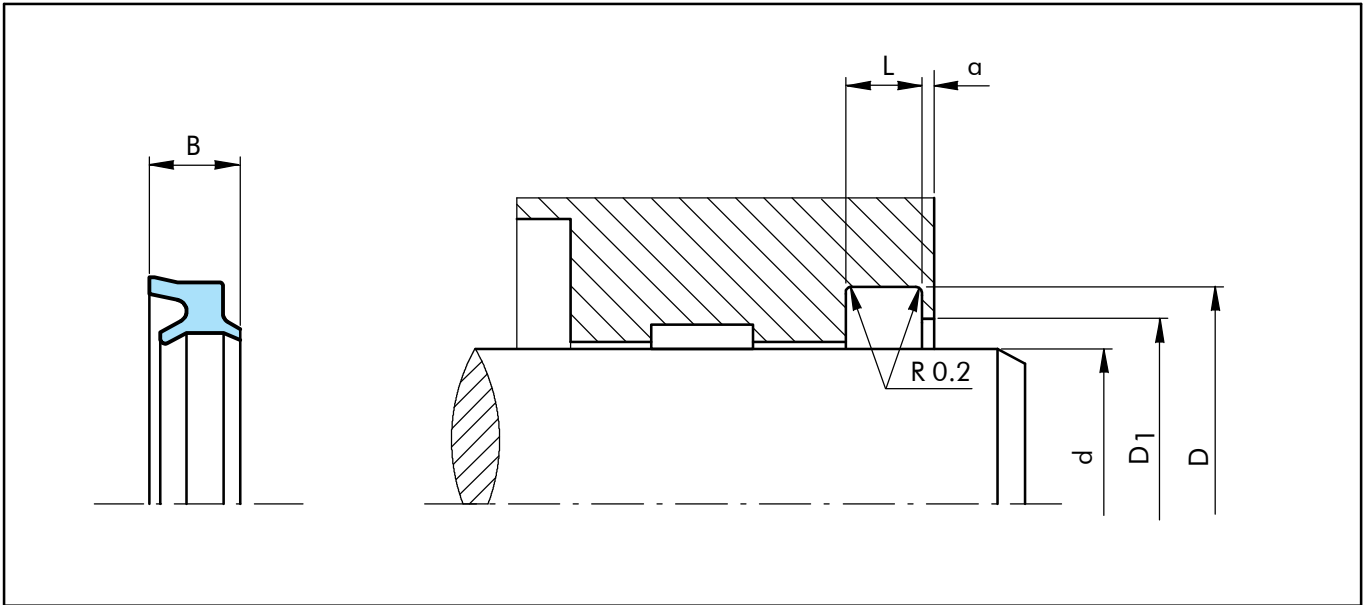


Figure 13 Installation drawing

Table XXVIII Installation dimensions / TSS Part No.

Rod diameter	Groove diameter	Groove width	Coupler diameter	Ring width	Step width	TSS Part No.
$d f7$	$D H10$	$L +0.15$	$D_1 H11$	$B$	$\min a+0.1$	
3.0	8.8	4.5	5.0	5.2	1.2	AWNS00030
4.0	8.8	4.5	6.0	5.2	1.2	AWNS00040
4.0	7.0	2.7	5.4	2.8	1.0	AWNS10040
5.0	8.0	2.7	6.2	2.8	1.0	AWNS00050
6.0	9.0	2.7	7.2	2.8	1.0	AWNS10060
6.0	10.8	4.5	8.0	5.2	1.2	AWNS00060
8.0	11.5	3.0	9.2	3.2	1.0	AWNS10080
8.0	12.8	4.5	10.0	5.2	1.2	AWNS00080
8.0	14.0	4.5	11.0	5.2	1.2	AWNS20080
10.0	14.0	3.2	11.4	3.7	1.0	AWNS10100
10.0	16.0	4.0	12.5	4.6	1.0	AWNS20100
10.0	16.8	4.5	13.0	5.2	1.2	AWNS00100
10.0	18.0	5.0	14.0	6.0	1.6	AWNS30100
12.0	16.5	3.7	13.7	4.0	1.2	AWNS40120
12.0	18.0	4.0	14.5	4.8	1.2	AWNS00120
12.0	20.0	3.7	16.0	5.7	1.6	AWNS60120
12.0	20.0	5.0	16.0	6.0	1.6	AWNS10120
12.0	20.0	5.5	16.0	6.5	1.6	AWNS20120
12.0	22.0	6.0	16.0	6.5	1.5	AWNS30120
14.0	18.5	3.7	15.7	4.0	1.2	AWNS20140
14.0	20.0	4.0	16.5	4.8	1.2	AWNS00140
14.0	22.0	5.0	18.0	6.0	1.5	AWNS30140



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Rod diameter	Groove diameter	Groove width	Coupling diameter	Ring width	Step width	TSS Part No.
d f7	D H 10	L +0.15	D <sub>1</sub> H11	B	min a+0.1	
14.0	24.0	6.0	18.0	6.5	1.5	AWNS10140
15.0	22.0	4.0	18.0	5.0	1.5	AWNS00150
16.0	20.5	3.7	17.7	4.0	1.2	AWNS20160
16.0	22.0	4.0	18.5	5.0	1.2	AWNS00160
16.0	24.0	5.0	18.5	6.0	1.5	AWNS30160
16.0	26.0	6.0	20.0	6.5	1.5	AWNS10160
18.0	22.5	3.7	19.7	4.0	1.2	AWNS10180
18.0	24.0	4.0	20.5	5.0	1.4	AWNS20180
18.0	26.0	5.0	21.0	6.0	1.6	AWNS30180
18.0	28.0	6.0	22.0	6.5	1.5	AWNS00180
20.0	25.0	4.0	21.9	4.6	1.2	AWNS20200
20.0	26.0	4.0	22.5	4.8	1.2	AWNS00200
20.0	30.0	7.0	24.0	7.5	1.5	AWNS10200
22.0	27.0	4.0	23.9	4.6	1.2	AWNS00220
22.0	28.0	4.0	24.5	5.0	1.4	AWNS10220
22.0	32.0	7.0	26.0	7.5	1.5	AWNS20220
25.0	30.0	4.0	26.9	4.6	1.2	AWNS20250
25.0	31.0	4.0	27.5	4.8	1.2	AWNS00250
25.0	35.0	7.0	29.0	7.5	1.5	AWNS10250
28.0	38.0	7.0	32.0	7.5	1.5	AWNS00280
30.0	35.5	4.55	32.1	5.0	1.2	AWNS10300
30.0	38.0	5.0	33.0	5.8	1.5	AWNS20300
30.0	40.0	7.0	34.0	7.5	1.5	AWNS00300
32.0	37.5	4.55	34.1	5.0	1.2	AWNS20320
32.0	40.0	5.0	35.0	5.8	1.3	AWNS10320
32.0	42.0	7.0	36.0	7.5	1.5	AWNS00320
35.0	45.0	7.0	39.0	7.5	1.5	AWNS00350
36.0	44.0	5.0	39.0	6.0	1.3	AWNS00360
36.0	46.0	7.0	40.0	7.5	1.5	AWNS10360
40.0	46.0	4.9	42.2	5.5	1.4	AWNS10400
40.0	50.0	7.0	44.0	7.5	1.5	AWNS00400
45.0	53.0	5.0	48.0	6.0	1.3	AWNS00450
45.0	55.0	7.0	49.0	7.5	1.5	AWNS10450
50.0	62.0	8.5	55.0	9.0	2.0	AWNS00500
70.0	80.0	6.0	75.0	7.0	1.5	AWNS00700