



Double-acting

Material:
Rubber







■ Scraper DA17



■ Description

The scraper DA17 is a molded double-acting elastomer scraper. It has two geometrically different scraper lips.

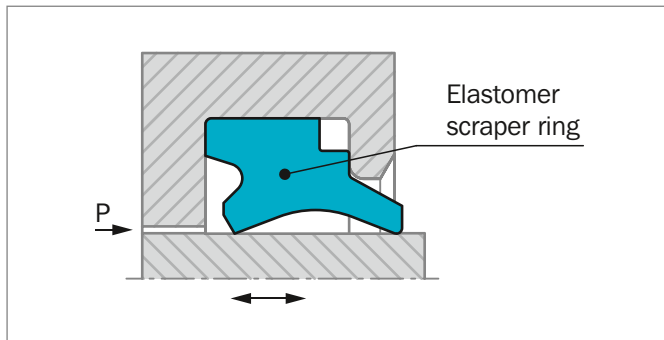


Figure 196: Scraper DA17

The scraper is preferably used for reciprocating piston rods and plunger pistons in hydraulic cylinders. It prevents the penetration of dirt into the system and on the medium side holds back the residual oil film from the extending piston rod.

The scraper is preferably used in conjunction with our rod seal Turcon® Stepseal®, i.e. seals with a hydrodynamic back-pumping function.

ADVANTAGES

- Low friction
- Good scraping effect both inwards and outwards
- Simple, small installation groove
- Compact design
- Easy installation and removal without tools

OPERATING CONDITIONS

Speed:	Up to 1 m/s
Temperature:	-25 °C to +100 °C
Media:	Mineral oil-based hydraulic fluids, flame retardant hydraulic fluids (HFA, HFB, HFC), water, air, etc.

IMPORTANT NOTE

The above data are maximum values and cannot be used at the same time, e.g. the maximum operating speed depends on material type, pressure, temperature and gap value. Temperature range also depends on media.

MATERIAL

Standard material: NBR 90 Shore A



■ Installation Recommendation

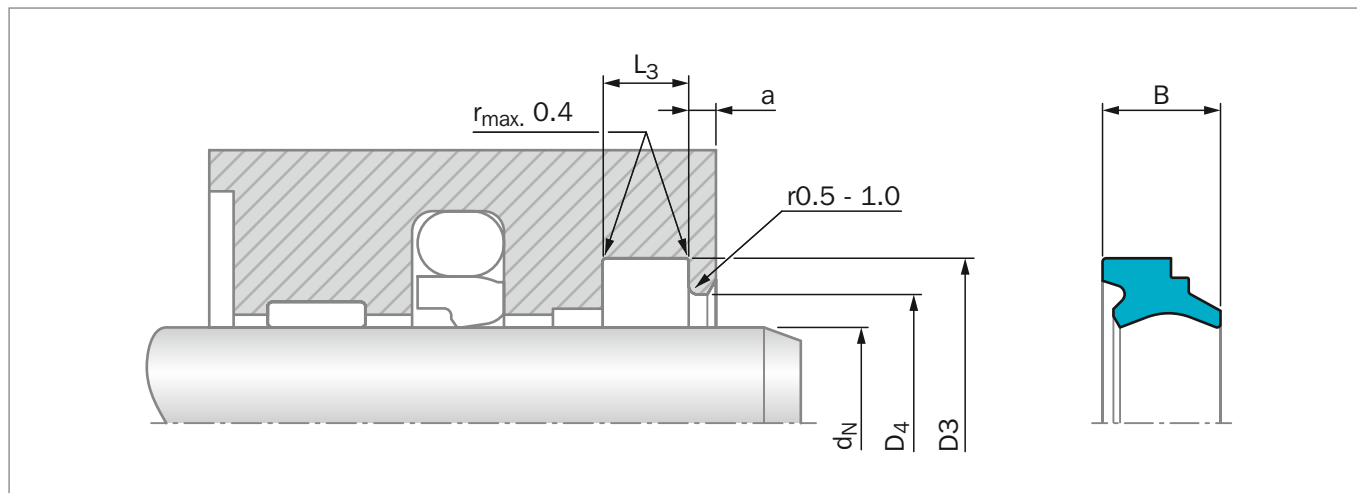


Figure 197: Installation Drawing

ORDERING EXAMPLE

Scraper DA17

Rod Diameter:	$d_N = 50.0 \text{ mm}$
TSS Part No.:	WD1700500 from Table 185
Material:	Standard material NBR 90 Shore A, Code N9

TSS Article No.

WD17 0 0500 - N9

TSS Series No. _____

Type (Standard) _____

Rod Diameter x 10 _____

Quality Index _____

Material Code _____

Table 185: Installation Dimensions / TSS Part No.

Rod Diameter	Groove Diameter	Groove Width	Bore Diameter	Step Width	Width	TSS Part No.
d_N f8/h9	D3 H9	L_3 +0.2	D4 H11	a_{min}	B	
10.0	18.0	6.0	13.5	2.0	8.0	WD1700100
12.0	20.0	6.0	15.5	2.0	8.0	WD1700120
14.0	22.0	6.0	17.5	2.0	8.0	WD1700140
15.0	23.0	6.0	18.5	2.0	8.0	WD1700150
16.0	24.0	6.0	19.5	2.0	8.0	WD1700160
18.0	26.0	6.0	21.5	2.0	8.0	WD1700180
20.0	28.0	6.0	23.5	2.0	8.0	WD1700200
22.0	30.0	6.0	25.5	2.0	8.0	WD1700220
24.0	32.0	6.0	27.5	2.0	8.0	WD1700240
25.0	33.0	6.0	28.5	2.0	8.0	WD1700250
28.0	36.0	6.0	31.5	2.0	8.0	WD1700280
30.0	38.0	6.0	33.5	2.0	8.0	WD1700300



Rod Diameter	Groove Diameter	Groove Width	Bore Diameter	Step Width	Width	TSS Part No.
d_N f8/h9	D3 H9	L ₃ +0.2	D ₄ H11	a _{min}	B	
32.0	40.0	6.0	35.5	2.0	8.0	WD1700320
35.0	43.0	6.0	38.5	2.0	8.0	WD1700350
36.0	44.0	6.0	39.5	2.0	8.0	WD1700360
37.0	45.0	6.0	40.5	2.0	8.0	WD1700370
38.0	46.0	6.0	41.5	2.0	8.0	WD1700380
40.0	48.0	6.0	43.5	2.0	8.0	WD1700400
42.0	50.0	6.0	45.5	2.0	8.0	WD1700420
45.0	53.0	6.0	48.5	2.0	8.0	WD1700450
46.0	54.0	6.0	49.5	2.0	8.0	WD1700460
48.0	56.0	6.0	51.5	2.0	8.0	WD1700480
50.0	58.0	6.0	53.5	2.0	8.0	WD1700500
52.0	60.0	6.0	55.5	2.0	8.0	WD1700520
55.0	63.0	6.0	58.5	2.0	8.0	WD1700550
56.0	64.0	6.0	59.5	2.0	8.0	WD1700560
60.0	68.0	6.0	63.5	2.0	8.0	WD1700600
63.0	71.0	6.0	66.5	2.0	8.0	WD1700630
65.0	73.0	6.0	68.5	2.0	8.0	WD1700650
68.0	76.0	6.0	71.5	2.0	8.0	WD1700680
70.0	78.0	6.0	73.5	2.0	8.0	WD1700700
75.0	83.0	6.0	78.5	2.0	8.0	WD1700750
80.0	88.0	6.0	83.5	2.0	8.0	WD1700800
85.0	93.0	6.0	88.5	2.0	8.0	WD1700850
90.0	98.0	6.0	93.5	2.0	8.0	WD1700900
95.0	103.0	6.0	98.5	2.0	8.0	WD1700950
100.0	108.0	6.0	103.5	2.0	8.0	WD1701000
105.0	117.0	8.2	110.0	3.0	11.0	WD1701050
110.0	122.0	8.2	115.0	3.0	11.0	WD1701100
115.0	127.0	8.2	120.0	3.0	11.0	WD1701150
120.0	132.0	8.2	125.0	3.0	11.0	WD1701200
125.0	137.0	8.2	130.0	3.0	11.0	WD1701250
130.0	142.0	8.2	135.0	3.0	11.0	WD1701300
135.0	147.0	8.2	140.0	3.0	11.0	WD1701350
140.0	152.0	8.2	145.0	3.0	11.0	WD1701400
145.0	157.0	8.2	150.0	3.0	11.0	WD1701450
150.0	162.0	8.2	155.0	3.0	11.0	WD1701500
155.0	167.0	8.2	160.0	3.0	11.0	WD1701550
160.0	172.0	8.2	165.0	3.0	11.0	WD1701600
165.0	177.0	8.2	170.0	3.0	11.0	WD1701650
170.0	182.0	8.2	175.0	3.0	11.0	WD1701700
180.0	192.0	8.2	185.0	3.0	11.0	WD1701800
185.0	197.0	8.2	190.0	3.0	11.0	WD1701850
190.0	202.0	8.2	195.0	3.0	11.0	WD1701900



Rod Diameter	Groove Diameter	Groove Width	Bore Diameter	Step Width	Width	TSS Part No.
d_N f8/h9	D3 H9	L ₃ +0.2	D ₄ H11	a _{min}	B	
195.0	207.0	8.2	200.0	3.0	11.0	WD1701950
200.0	212.0	8.2	205.0	3.0	11.0	WD1702000
205.0	220.0	9.5	212.0	3.0	13.0	WD1702050
210.0	225.0	9.5	217.0	3.0	13.0	WD1702100
220.0	235.0	9.5	227.0	3.0	13.0	WD1702200
225.0	240.0	9.5	232.0	3.0	13.0	WD1702250
240.0	255.0	9.5	247.0	3.0	13.0	WD1702400
250.0	265.0	9.5	257.0	3.0	13.0	WD1702500
260.0	275.0	9.5	267.0	3.0	13.0	WD1702600
275.0	290.0	9.5	282.0	3.0	13.0	WD1702750
280.0	295.0	9.5	287.0	3.0	13.0	WD1702800
290.0	305.0	9.5	297.0	3.0	13.0	WD1702900
300.0	315.0	9.5	307.0	3.0	13.0	WD1703000
310.0	325.0	9.5	317.0	3.0	13.0	WD1703100
320.0	335.0	9.5	327.0	3.0	13.0	WD1703200
350.0	365.0	9.5	357.0	3.0	13.0	WD1703500
360.0	375.0	9.5	367.0	3.0	13.0	WD1703600
370.0	385.0	9.5	377.0	3.0	13.0	WD1703700
400.0	415.0	9.5	407.0	3.0	13.0	WD1704000
440.0	455.0	9.5	447.0	3.0	13.0	WD1704400

The rod diameters in **bold** type comply with the recommendations of ISO 3320.
Intermediate sizes above 125 mm diameter can also be supplied in impact vulcanized form.
Up to 18 mm diameter, we recommend a split groove.
Other dimensions on request.