Scraper DA17



Double Acting

Material:
Rubber

■ Scraper DA 17



Description

The scraper DA 17 is a moulded double-acting elastomer scraper. It has two geometrically different scraper lips.

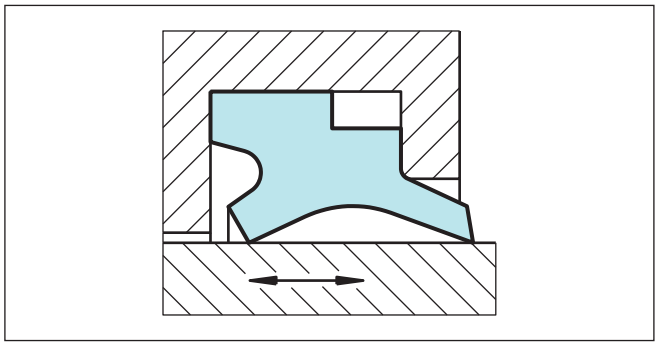


Figure 12 Scraper DA 17

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

Technical Data

Speed:	up to 1 m/s
Temperature:	-30 °C to +110 °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 dependent on medium.

Material

Standard material:	NBR, 90 Shore A

■ Installation Recommendation

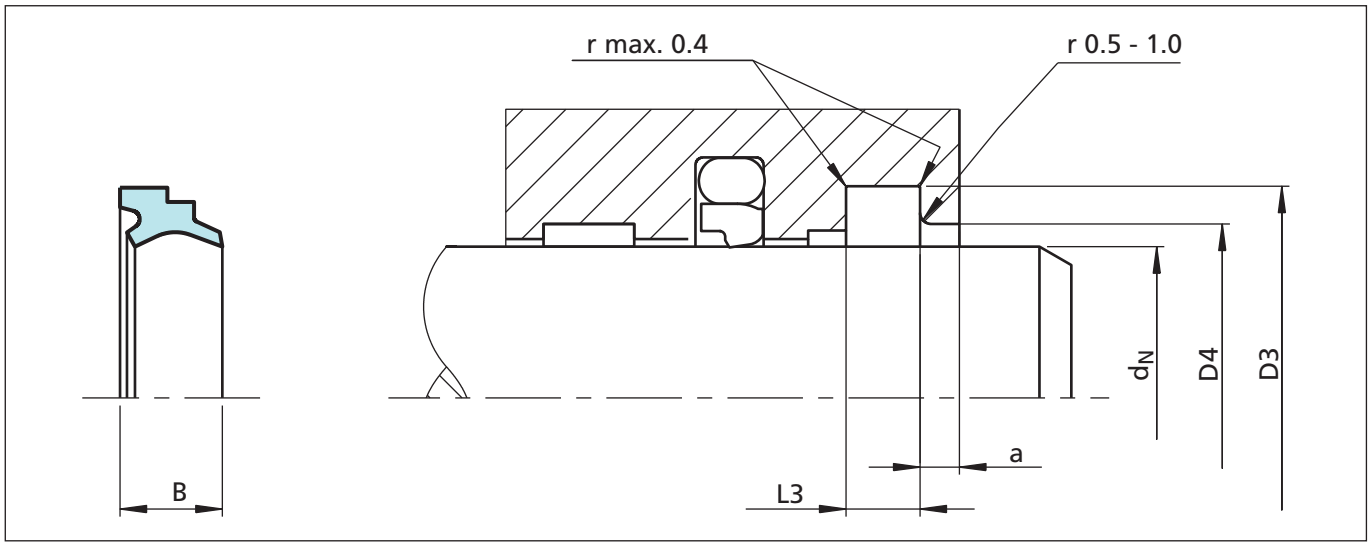


Figure 13 Installation drawing

Ordering Example

Scraper DA 17
Rod diameter: d_N = 50.0 mm
TSS Part No.: WD1700500 (from Table XX)
Material: Standard material
NBR 90 Shore A, Code N9

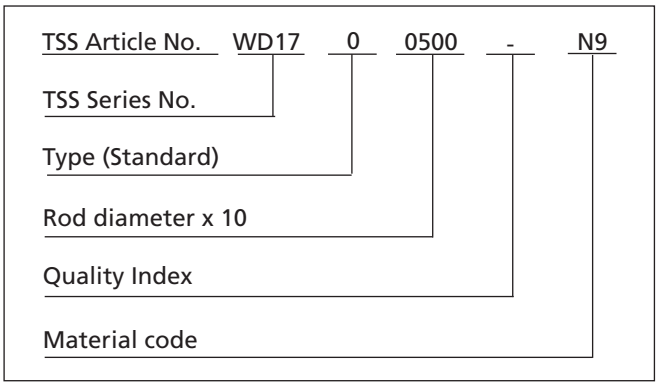


Table XX Installation dimensions / TSS part numbers

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**	
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**

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 vulcanised form.
Other dimensions on request. Up to 18 mm diameter we recommend a split groove.

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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**	
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
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**

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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**	
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
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

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