



| Profile                                                                               | Reference    | Temp.<br>(°C)*       | Speed<br>(m/s)* | Material              | Dimensions<br>(mm)            | mm | inch | Page      |
|---------------------------------------------------------------------------------------|--------------|----------------------|-----------------|-----------------------|-------------------------------|----|------|-----------|
| <b>5a Single acting wipers for closed housings</b>                                    |              |                      |                 |                       |                               |    |      |           |
|    | 10WRM        | -30 +100             | 0,8             | NBR                   | 5 ... 400                     | ●  |      | 694 - 697 |
|    | 11WRM...FPM  | -10 +180             | 0,8             | FPM                   | 16 ... 180                    | ●  |      | 698 - 699 |
|    | 12AI         | -45 +120<br>-20 +200 | 1               | TPE (Hytrel®)<br>FPM  | 18 ... 500<br>18 ... 250      | ●  |      | 700 - 701 |
|    | 10DSR        | -30 +100             | 0,8             | NBR                   | 4 ... 450                     | ●  |      | 702 - 703 |
|    | 11DSR...FPM  | -10 +180             | 0,8             | FPM                   | 16 ... 250                    | ●  |      | 704 - 705 |
|    | 10PWB        | -30 +100             | 0,8             | NBR                   | 3/8" ... 4"                   | ●  |      | 706 - 707 |
|    | 10WRS        | -30 +100             | 0,5             | NBR                   | 20 ... 140<br>3/4" ... 4 1/4" | ●  | ●    | 708 - 709 |
|    | 10WRM-P      | -30 +100             | 0,8             | PU                    | 4 ... 300                     | ●  |      | 710 - 713 |
|    | 10WRM/PI     | -30 +100             | 0,8             | PU                    | 1/2" ... 9"                   | ●  |      | 714 - 717 |
|   | 10PPW        | -30 +100             | 0,8             | PU                    | 40 ... 140                    | ●  |      | 718 - 719 |
|  | 10DK         | -30 +100             | 0,8             | PU                    | 18 ... 140                    | ●  |      | 720 - 721 |
|  | 10WNV        | -30 +100             | 1               | PU                    | 16 ... 200                    | ●  |      | 722 - 723 |
|  | 10DSR/P      | -30 +100             | 0,8             | PU                    | 6 ... 200                     | ●  |      | 724 - 725 |
|  | 10WAH        | -30 +100             | 0,8             | PU                    | 35 ... 90                     | ●  |      | 726 - 727 |
|  | 10WRM-H      | -30 +110             | 0,8             | TPE                   | 20 ... 420                    | ●  |      | 728 - 729 |
|  | 10DSR/H      | -30 +110             | 0,8             | TPE                   | 25 ... 90                     | ●  |      | 730 - 731 |
|  | 10NW         | -40 +100             | 0,8             | PA + MoS <sub>2</sub> | 16 ... 100<br>1/2" ... 4"     | ●  | ●    | 732 - 733 |
|  | 10WHD        | -40 +100             | 0,8             | PA or POM             | 44,5 ... 200                  | ●  |      | 734 - 735 |
|  | 10WTF...A-12 | -30 +100             | 15              | PTFE/NBR              | 6 ... 200                     | ●  |      | 736 - 737 |

\* See page 8



| Profile                                                                               | Reference      | Temp.<br>(°C)* | Speed<br>(m/s)* | Material | Dimensions<br>(mm) | mm | inch | Page      |
|---------------------------------------------------------------------------------------|----------------|----------------|-----------------|----------|--------------------|----|------|-----------|
| <b>5b Double acting wipers for closed housings</b>                                    |                |                |                 |          |                    |    |      |           |
|    | 10UWR          | -30 +100       | 0,8             | NBR      | 5 ... 90           | ●  |      | 738 - 739 |
|    | 11UWR...FPM    | -10 +180       | 0,8             | FPM      | 12 ... 100         | ●  |      | 740 - 741 |
|    | 10DSR.../U     | -30 +100       | 0,8             | NBR      | 10 ... 500         | ●  |      | 742 - 745 |
|    | 11DSR.../U FPM | -10 +180       | 0,8             | FPM      | 20 ... 120         | ●  |      | 746 - 747 |
|    | 10UWR/P        | -30 +100       | 0,8             | PU       | 4 ... 240          | ●  |      | 748 - 749 |
|    | 10UWR/PI       | -30 +100       | 0,8             | PU       | 1/2" ... 8"        | ●  |      | 750 - 751 |
|    | 10DSR.../UP    | -30 +100       | 0,8             | PU       | 10 ... 130         | ●  |      | 752 - 753 |
|  | 10WUH          | -30 + 100      | 0,8             | PU       | 26 ... 100         | ●  |      | 754 - 755 |
|  | 10WTF...B-55   | -30 +100       | 15              | PTFE/NBR | 6 ... 240          | ●  |      | 756 - 757 |
|  | 10WTF-C        | -30 +100       | 5               | PTFE/NBR | 20 ... 400         | ●  |      | 758 - 759 |
|  | 10WTF-P...B-55 | -30 +100       | 15              | PTFE/NBR | 20 ... 530         | ●  |      | 760 - 763 |
|  | 10WTF-D        | -30 +100       | 5               | PTFE/NBR | 140 ... 360        | ●  |      | 764 - 765 |

\* See page 8

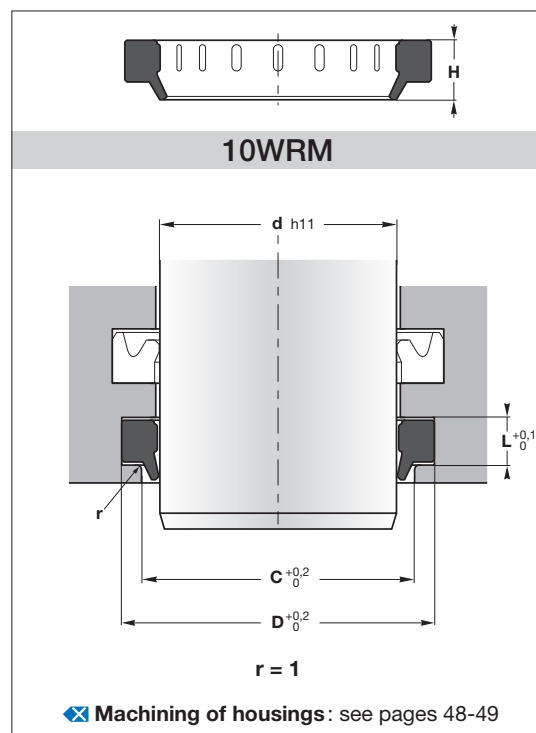


| Profile                                                                             | Reference        | Temp.<br>(°C)*                   | Speed<br>(m/s)* | Material                                         | Dimensions<br>(mm) | mm | inch | Page      |
|-------------------------------------------------------------------------------------|------------------|----------------------------------|-----------------|--------------------------------------------------|--------------------|----|------|-----------|
| <b>5c Wipers for open housings</b>                                                  |                  |                                  |                 |                                                  |                    |    |      |           |
|    | 10GA             | -30 +100                         | 0,8             | NBR/ST                                           | 6 ... 220          | ●  |      | 766 - 769 |
|    | 11GA...FPM       | -10 +180                         | 0,8             | FPM/ST                                           | 12 ... 120         | ●  |      | 770 - 771 |
|    | 10GA.../R        | -30 +100                         | 0,8             | NBR/ST                                           | 8 ... 160          | ●  |      | 772 - 773 |
|    | 10GA.../P        | -30 +100                         | 0,8             | PU/ST                                            | 12 ... 180         | ●  |      | 774 - 775 |
|    | 10PW.../G        | -30 +100                         | 0,5             | PU/ST                                            | 8 ... 125          | ●  |      | 776 - 777 |
|    | 10SWP            | -30 +100                         | 0,5             | PU/ST                                            | 25 ... 190         | ●  |      | 778 - 781 |
|    | 10SWP/I          | -30 +100                         | 0,5             | PU/ST                                            | 5/8" ... 6"        | ●  |      | 782 - 783 |
|  | 10SWPM           | -30 +100                         | 0,5             | PU/ST                                            | 25 ... 140         | ●  |      | 784 - 785 |
|  | 10PW.../U        | -30 +100                         | 0,5             | PU/ST                                            | 20 ... 180         | ●  |      | 786 - 787 |
|  | 20DR             | -30 +110                         | 1               | MS/NBR/ST                                        | 12 ... 300         | ●  |      | 788 - 789 |
|  | 20DR...SS/FPM/SS | -20 +180                         | 1               | SS/FPM/SS                                        | 14 ... 160         | ●  |      | 790 - 791 |
|  | 20WICE           | -30 +110<br>-10 +180<br>-50 +100 | 1               | BZ/PU/NBR/ST<br>BZ/FPM/FPM/ST<br>BZ/PU22/TNBR/ST | 18 ... 200         | ●  |      | 792 - 793 |

\* See page 8

| Profile                                                                               | Reference                               | Temp.<br>(°C)* | Speed<br>(m/s)* | Material               | Dimensions<br>(mm) | mm | inch | Page      |
|---------------------------------------------------------------------------------------|-----------------------------------------|----------------|-----------------|------------------------|--------------------|----|------|-----------|
| <b>5d Wipers TSS</b>                                                                  |                                         |                |                 |                        |                    |    |      |           |
|    | 17WD17<br>Scraper DA17                  | -30 +110       | 1               | NBR                    | 12 ... 500         | ●  |      | 794 - 797 |
|    | 17WD22<br>Zurcon® Scraper DA22          | -30 +100       | 0,8             | Zurcon® Z201           | 6 ... 180          | ●  |      | 798 - 799 |
|    | 17WD24<br>Zurcon® Scraper DA24          | -30 +100       | 0,5             | Zurcon® Z201           | 40 ... 280         | ●  |      | 800 - 801 |
|    | 17WD24H<br>Zurcon® Scraper DA24         | -30 +100       | 0,5             | Zurcon® Z201           | 40 ... 280         | ●  |      | 800 - 801 |
|    | 17WE3...-T/M...N<br>Turcon® Excluder® 2 | -30 +100       | 15              | Turcon® T46/NBR        | 6 ... 400          | ●  |      | 802 - 805 |
|    | 17WE3...-T/M...V<br>Turcon® Excluder® 2 | -20 +200       | 15              | Turcon® T46/FPM        | 12 ... 110         | ●  |      | 806 - 809 |
|    | 17WE3...-Z...N<br>Zurcon® Excluder® 2   | -30 +100       | 2               | Zurcon® Z53/NBR        | 6 ... 400          | ●  |      | 810 - 811 |
|  | 17WE3...-Z...V<br>Zurcon® Excluder® 2   | -20 +200       | 2               | Zurcon® Z53/FPM        | 12 ... 110         | ●  |      | 812 - 813 |
|  | 17WE5...-T/M...N<br>Turcon® Excluder® 5 | -30 +100       | 15              | Turcon® T46/NBR        | 20 ... 400         | ●  |      | 814 - 817 |
|  | 17WE5...-T/M...V<br>Turcon® Excluder® 5 | -20 +200       | 15              | Turcon® T46/FPM        | 25 ... 125         | ●  |      | 818 - 821 |
|  | 17WEP...-Z...N<br>Zurcon® Excluder® 500 | -30 +80        | 1               | Zurcon® Z05/NBR        | 12 ... 130         | ●  |      | 822 - 823 |
|  | 17WEP...-Z...V<br>Zurcon® Excluder® 500 | -20 +80        | 1               | Zurcon® Z05/FPM        | 12 ... 130         | ●  |      | 824 - 825 |
|  | 17WE5...-Z...N<br>Zurcon® Excluder® 5   | -30 +100       | 2               | Zurcon® Z53/NBR        | 20 ... 250         | ●  |      | 826 - 829 |
|  | 17WE5...-Z...V<br>Zurcon® Excluder® 5   | -20 +200       | 2               | Zurcon® Z53/FPM        | 20 ... 250         | ●  |      | 830 - 833 |
|  | 17WEY<br>Zurcon® Excluder®              | -30 +80        | 2               | Zurcon® Z80/<br>NBR/SS | 28 ... 140         | ●  |      | 834 - 835 |

\* See page 8



The function of **10WRM** wiper is to prevent introduction of contamination into the system, to protect the guiding parts and to extend the service life of the rod seal. The nitrile elastomer wiper lip produces an effective cleaning action to avoid damage to all internal components.

The ribs on the inner surface **give stability** and prevent twisting of the wiper in the groove or sticking onto the rod.

#### Operating conditions ✕ see page 8

|             |                   |
|-------------|-------------------|
| Temperature | -30°C to 100°C    |
| Speed       | ≤ 0,8 m/s         |
| Fluids      | ✕ see pages 22-45 |

#### Materials ✕ see pages 10-19

|           |             |
|-----------|-------------|
| Elastomer | NBR 90 Sh A |
|-----------|-------------|

#### Assembly ✕ see pages 54-59

The wipers may easily be mounted into the grooved housing

#### Advantages

- Easy to assemble
- Good price-performance ratio
- Simple groove construction

**Please contact us for applications approaching maximum values.**

#### More information

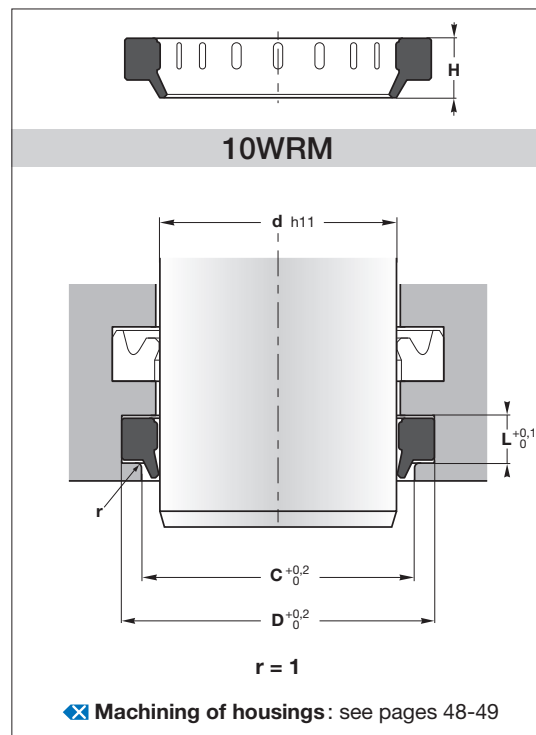
On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| d  | D    | L   | C    | H   | Reference    |
|----|------|-----|------|-----|--------------|
| 5  | 12   | 2,8 | 9    | 4   | 10WRM 019047 |
| 12 | 18,6 | 3,8 | 15   | 5,5 | 10WRM 047070 |
| 16 | 22,6 | 3,8 | 19   | 5,5 | 10WRM 062087 |
| 18 | 24,6 | 3,8 | 21   | 5   | 10WRM 070094 |
| 19 | 28,6 | 5,3 | 22   | 7   | 10WRM 074110 |
| 20 | 28,6 | 5,3 | 23   | 7   | 10WRM 078110 |
| 22 | 30,6 | 5,3 | 25   | 7   | 10WRM 086118 |
| 25 | 33,6 | 5,3 | 28   | 7   | 10WRM 098129 |
| 26 | 34,6 | 5,3 | 29   | 7   | 10WRM 102133 |
| 27 | 35,6 | 5,3 | 29,4 | 7   | 10WRM 106137 |
| 28 | 36,6 | 5,3 | 31   | 7   | 10WRM 110141 |
| 30 | 38,6 | 5,3 | 33   | 7   | 10WRM 118149 |
| 32 | 40,6 | 5,3 | 35   | 7   | 10WRM 125157 |
| 33 | 41,6 | 5,3 | 36   | 7   | 10WRM 129161 |
| 35 | 43,6 | 5,3 | 38   | 7   | 10WRM 137169 |
| 36 | 44,6 | 5,3 | 39   | 7   | 10WRM 141173 |
| 38 | 46,6 | 5,3 | 41   | 7   | 10WRM 149181 |
| 40 | 48,6 | 5,3 | 43   | 7   | 10WRM 157188 |
| 45 | 53,6 | 5,3 | 48   | 7   | 10WRM 177208 |
|    | 55,6 | 5,3 | 49   | 7   | 10WRM 177216 |
| 50 | 58,6 | 5,3 | 53   | 7   | 10WRM 196228 |
|    | 60,6 | 5,3 | 54   | 7   | 10WRM 196236 |
| 55 | 63,6 | 5,3 | 58   | 7   | 10WRM 216248 |
|    | 65,6 | 5,3 | 59   | 7   | 10WRM 216255 |
| 56 | 64,6 | 5,3 | 59   | 7   | 10WRM 220251 |
|    | 66,6 | 5,3 | 60   | 7   | 10WRM 220259 |
| 60 | 68,6 | 5,3 | 63   | 7   | 10WRM 236267 |
|    | 70,6 | 5,3 | 64   | 7   | 10WRM 236275 |
| 63 | 71,6 | 5,3 | 66   | 7   | 10WRM 248279 |
|    | 73,6 | 5,3 | 67   | 7   | 10WRM 248287 |

| d   | D     | L    | C   | H  | Reference    |
|-----|-------|------|-----|----|--------------|
| 65  | 73,6  | 5,3  | 68  | 7  | 10WRM 255287 |
|     | 75,6  | 5,3  | 69  | 7  | 10WRM 255295 |
| 70  | 78,6  | 5,3  | 73  | 7  | 10WRM 275307 |
|     | 80,6  | 5,3  | 74  | 7  | 10WRM 275314 |
|     | 82,2  | 7,1  | 76  | 12 | 10WRM 275322 |
| 75  | 87,2  | 7,1  | 81  | 12 | 10WRM 295345 |
| 78  | 92,2  | 7,1  | 85  | 12 | 10WRM 307362 |
| 80  | 88,6  | 5,3  | 83  | 7  | 10WRM 314346 |
|     | 92,2  | 7,1  | 86  | 12 | 10WRM 314362 |
| 85  | 93,6  | 5,3  | 88  | 7  | 10WRM 334366 |
|     | 97,2  | 7,1  | 91  | 12 | 10WRM 334381 |
| 88  | 100,2 | 7,1  | 94  | 12 | 10WRM 346393 |
| 90  | 102,2 | 7,1  | 96  | 12 | 10WRM 354401 |
| 95  | 107,2 | 7,1  | 101 | 12 | 10WRM 374421 |
| 100 | 112,2 | 7,1  | 106 | 12 | 10WRM 393440 |
| 105 | 117,2 | 7,1  | 111 | 12 | 10WRM 413460 |
| 110 | 122,2 | 7,1  | 116 | 12 | 10WRM 433480 |
| 115 | 127,2 | 7,1  | 121 | 12 | 10WRM 452500 |
| 120 | 128,6 | 5,3  | 123 | 7  | 10WRM 472504 |
|     | 132,2 | 7,1  | 126 | 12 | 10WRM 472519 |
| 125 | 137,2 | 7,1  | 131 | 12 | 10WRM 492539 |
|     | 140,2 | 10,1 | 132 | 16 | 10WRM 492551 |
| 135 | 147,2 | 7,1  | 141 | 12 | 10WRM 531578 |
| 140 | 152,2 | 7,1  | 146 | 12 | 10WRM 551598 |
|     | 155,2 | 10,1 | 147 | 16 | 10WRM 551610 |
| 145 | 157,2 | 7,1  | 151 | 12 | 10WRM 570618 |
| 150 | 162,2 | 7,1  | 156 | 12 | 10WRM 590637 |
| 155 | 169,2 | 7,1  | 162 | 12 | 10WRM 610664 |
| 160 | 175,2 | 10,1 | 168 | 16 | 10WRM 629688 |
| 170 | 185,2 | 10,1 | 178 | 16 | 10WRM 669728 |
| 175 | 189,2 | 7,1  | 182 | 12 | 10WRM 688744 |

10WRM wipers with diameters between 20 and 1500 mm can be manufactured within short delivery time.  
 For prices and availability: [www.sealtech-business.be](http://www.sealtech-business.be)





The function of **10WRM** wiper is to prevent introduction of contamination into the system, to protect the guiding parts and to extend the service life of the rod seal. The nitrile elastomer wiper lip produces an effective cleaning action to avoid damage to all internal components.

The ribs on the inner surface **give stability** and prevent twisting of the wiper in the groove or sticking onto the rod.

**Operating conditions**  [see page 8](#)

Temperature -30°C to 100°C  
Speed ≤ 0,8 m/s  
Fluids  [see pages 22-45](#)

**Materials**  [see pages 10-19](#)

Elastomer NBR 90 Sh A

**Assembly**  [see pages 54-59](#)

The wipers may easily be mounted into the grooved housing

**Advantages**

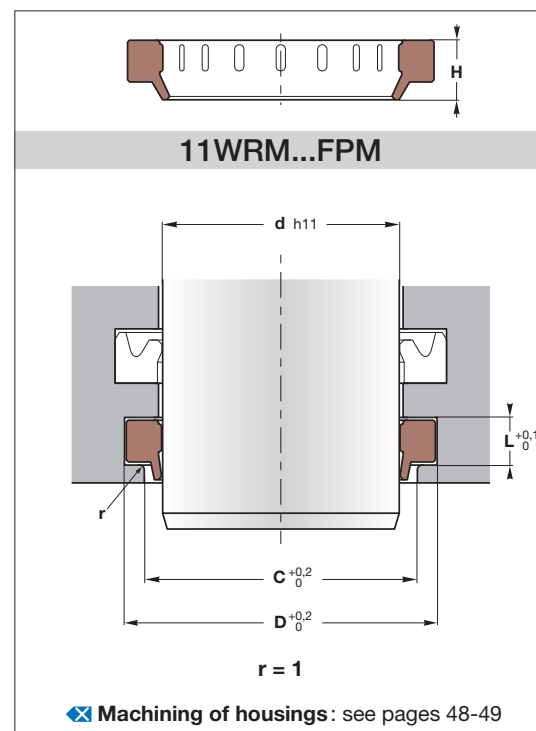
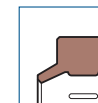
Easy to assemble  
Good price-performance ratio  
Simple groove construction

**Please contact us for applications approaching maximum values.**

**More information**

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| d   | D     | L    | C   | H  | Reference |          |
|-----|-------|------|-----|----|-----------|----------|
| 180 | 195,2 | 10,1 | 188 | 16 | 10WRM     | 708767   |
|     | 200,2 | 10,1 | 190 | 18 | 10WRM     | 708787   |
| 190 | 210,2 | 10,1 | 200 | 18 | 10WRM     | 748826   |
| 200 | 215,2 | 10,1 | 208 | 16 | 10WRM     | 787847   |
|     | 220,2 | 10,1 | 210 | 18 | 10WRM     | 787866   |
| 210 | 230   | 10,2 | 220 | 18 | 10WRM     | 826905   |
| 240 | 260   | 10,2 | 250 | 18 | 10WRM     | 9441024  |
| 250 | 270   | 10,2 | 260 | 18 | 10WRM     | 9841062  |
| 280 | 300   | 10,2 | 290 | 18 | 10WRM     | 11021181 |
| 300 | 320   | 10,2 | 310 | 18 | 10WRM     | 11811259 |
| 320 | 340   | 10,2 | 330 | 18 | 10WRM     | 12591338 |
| 360 | 380   | 10,2 | 370 | 18 | 10WRM     | 14171496 |
| 400 | 420   | 10,2 | 410 | 18 | 10WRM     | 15741653 |



The function of **11WRM...FPM** wiper is to prevent introduction of contamination into the system, to protect the guiding parts and to extend the service life of the rod seal. The wiper lip produces an effective cleaning action to avoid damage to all internal components.

The ribs on the inner surface **give stability** and prevent twisting of the wiper in the groove or sticking onto the rod.

The material used for this wiper is a fluorocarbon elastomer, especially suited for processes at **higher temperatures**. While also having better resistance to a wide range of more aggressive fuels and chemicals, its mechanical properties are not that good. (f.ex. compression set)

#### Operating conditions see page 8

|             |                                                                                                    |
|-------------|----------------------------------------------------------------------------------------------------|
| Temperature | -10°C to 180°C                                                                                     |
| Speed       | ≤ 0,8 m/s                                                                                          |
| Fluids      |  see pages 22-45 |

#### Materials see pages 10-19

|           |             |
|-----------|-------------|
| Elastomer | FPM 90 Sh A |
|-----------|-------------|

#### Assembly see pages 54-59

The wipers may easily be mounted into the grooved housing

#### Advantages

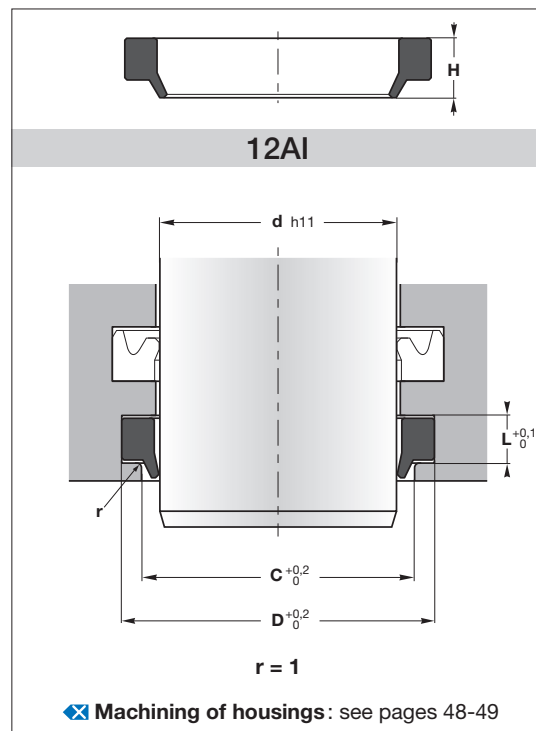
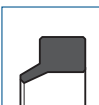
- Easy to assemble
- Simple groove construction
- Up to 180°C
- Resistant to aggressive fuels and chemicals

**Please contact us for applications approaching maximum values.**

#### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| d   | D     | L    | C   | H   | Reference        |
|-----|-------|------|-----|-----|------------------|
| 16  | 22,6  | 3,8  | 19  | 5,5 | 11WRM 062087 FPM |
| 18  | 24,6  | 3,8  | 21  | 5,5 | 11WRM 070094 FPM |
| 20  | 28,6  | 5,3  | 23  | 7   | 11WRM 078110 FPM |
| 22  | 30,6  | 5,3  | 25  | 7   | 11WRM 086118 FPM |
| 25  | 33,6  | 5,3  | 28  | 7   | 11WRM 098129 FPM |
| 28  | 36,6  | 5,3  | 31  | 7   | 11WRM 110141 FPM |
| 30  | 38,6  | 5,3  | 33  | 7   | 11WRM 118149 FPM |
| 32  | 40,6  | 5,3  | 35  | 7   | 11WRM 125157 FPM |
| 35  | 43,6  | 5,3  | 38  | 7   | 11WRM 137169 FPM |
| 36  | 44,6  | 5,3  | 39  | 7   | 11WRM 141173 FPM |
| 40  | 48,6  | 5,3  | 43  | 7   | 11WRM 157188 FPM |
| 45  | 53,6  | 5,3  | 48  | 7   | 11WRM 177208 FPM |
|     | 55,6  | 5,3  | 49  | 7   | 11WRM 177216 FPM |
| 50  | 58,6  | 5,3  | 53  | 7   | 11WRM 196228 FPM |
|     | 60,6  | 5,3  | 54  | 7   | 11WRM 196236 FPM |
| 55  | 65,6  | 5,3  | 59  | 7   | 11WRM 216255 FPM |
| 56  | 66,6  | 5,3  | 60  | 7   | 11WRM 220259 FPM |
| 60  | 68,6  | 5,3  | 63  | 7   | 11WRM 236267 FPM |
|     | 70,6  | 5,3  | 64  | 7   | 11WRM 236275 FPM |
| 65  | 73,6  | 5,3  | 68  | 7   | 11WRM 255287 FPM |
| 70  | 78,6  | 5,3  | 73  | 7   | 11WRM 275307 FPM |
|     | 80,6  | 5,3  | 74  | 7   | 11WRM 275314 FPM |
| 80  | 88,6  | 5,3  | 83  | 7   | 11WRM 314346 FPM |
|     | 92,2  | 7,1  | 86  | 12  | 11WRM 314362 FPM |
| 90  | 102,2 | 7,1  | 96  | 12  | 11WRM 354401 FPM |
| 100 | 112,2 | 7,1  | 106 | 12  | 11WRM 393440 FPM |
| 110 | 122,2 | 7,1  | 116 | 12  | 11WRM 433480 FPM |
| 125 | 140,2 | 10,1 | 132 | 16  | 11WRM 492551 FPM |
| 140 | 155,2 | 10,1 | 147 | 16  | 11WRM 551610 FPM |
| 160 | 175,2 | 10,1 | 168 | 16  | 11WRM 629688 FPM |
| 180 | 200   | 10,2 | 190 | 16  | 11WRM 708787 FPM |



The function of **12AI** wiper is to keep out extremely fine dust, metal particles, grains of sand etc. such that the bearing elements and seals behind it are not subjected to premature wear as a result of contaminant ingress.

#### Operating conditions ✕ see page 8

|             |                   |
|-------------|-------------------|
| Temperature |                   |
| Hytrel®     | -45°C to 120°C    |
| FPM         | -20°C to 200°C    |
| Speed       | ≤ 1 m/s           |
| Fluids      | ✕ see pages 22-45 |

#### Materials ✕ see pages 10-19

|      |                |
|------|----------------|
| Seal | Hytrel® or FPM |
|------|----------------|

#### Assembly ✕ see pages 54-59

The wipers may easily be mounted into the grooved housing

#### Advantages

- Easy to assemble
- Good price-performance ratio
- Simple groove construction

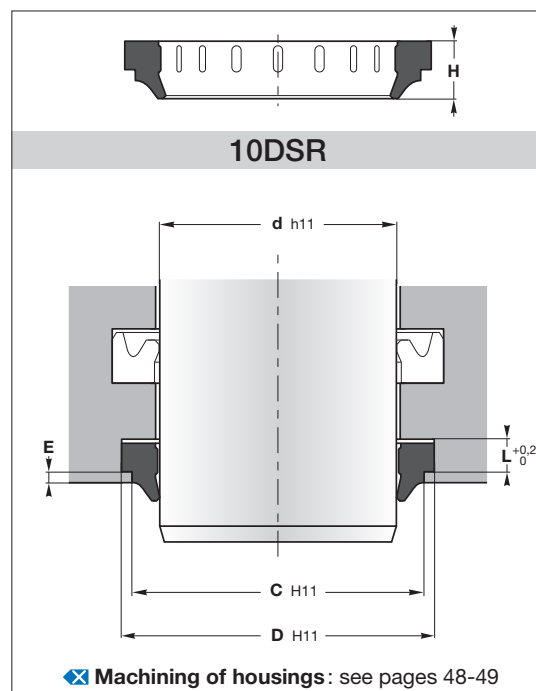
Please contact us for applications approaching maximum values.

#### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| d   | D    | L    | C   | H  | Reference |
|-----|------|------|-----|----|-----------|
| 45  | 55,3 | 5,2  | 48  | 7  | 12AI 45   |
| 100 | 112  | 7,2  | 106 | 12 | 12AI 100  |
| 180 | 200  | 10,2 | 190 | 18 | 12AI 180  |
| 230 | 250  | 10,2 | 240 | 18 | 12AI 230  |





The function of **10DSR** wiper is to prevent introduction of contamination into the system, to protect the guiding parts and to extend the service life of the rod seal. The nitrile elastomer wiper lip produces an effective cleaning action to avoid damage to all internal components.

The ribs on the inner surface **give stability** and prevent twisting of the wiper in the groove or sticking onto the rod.

The flush fitting with the outside diameter **reduces impurities** and moisture entering the groove.

#### Operating conditions see page 8

|             |                                                                                                    |
|-------------|----------------------------------------------------------------------------------------------------|
| Temperature | -30°C to 100°C                                                                                     |
| Speed       | ≤ 0,8 m/s                                                                                          |
| Fluids      |  see pages 22-45 |

#### Materials see pages 10-19

|           |             |
|-----------|-------------|
| Elastomer | NBR 90 Sh A |
|-----------|-------------|

#### Assembly see pages 54-59

The wipers may easily be mounted into the grooved housing

#### Advantages

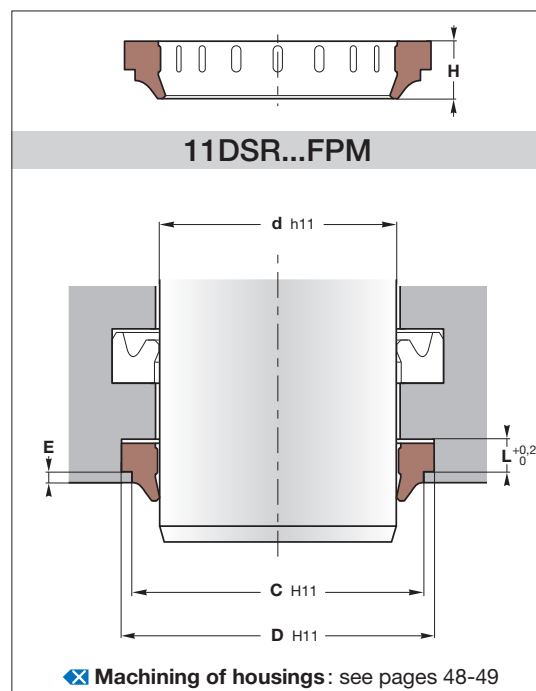
- Easy to assemble
- Good price-performance ratio
- Small housing
- Simple groove construction
- External flush fitting for a good housing
- No tilting or twisting in the groove
- Flush fitting with the outer surface for a good housing protection

**Please contact us for applications approaching maximum values.**

#### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| d  | D  | L | C  | E | H | Reference | d   | D   | L   | C   | E   | H  | Reference   |
|----|----|---|----|---|---|-----------|-----|-----|-----|-----|-----|----|-------------|
| 4  | 12 | 4 | 10 | 1 | 7 | 10DSR 04  | 70  | 78  | 4   | 76  | 1   | 7  | 10DSR 70    |
| 8  | 16 | 4 | 14 | 1 | 7 | 10DSR 08  | 75  | 83  | 4   | 81  | 1   | 7  | 10DSR 75    |
| 10 | 18 | 4 | 16 | 1 | 7 | 10DSR 10  | 80  | 88  | 4   | 86  | 1   | 7  | 10DSR 80    |
| 12 | 20 | 4 | 18 | 1 | 7 | 10DSR 12  | 85  | 93  | 4   | 91  | 1   | 7  | 10DSR 85    |
| 14 | 22 | 4 | 20 | 1 | 7 | 10DSR 14  | 90  | 98  | 4   | 96  | 1   | 7  | 10DSR 90    |
| 15 | 23 | 4 | 21 | 1 | 7 | 10DSR 15  | 95  | 103 | 4   | 101 | 1   | 7  | 10DSR 95    |
| 16 | 24 | 4 | 22 | 1 | 7 | 10DSR 16  | 100 | 108 | 4   | 106 | 1   | 7  | 10DSR 100   |
| 18 | 26 | 4 | 24 | 1 | 7 | 10DSR 18  | 105 | 117 | 5,5 | 114 | 1,5 | 7  | 10DSR 105   |
| 20 | 28 | 4 | 26 | 1 | 7 | 10DSR 20  | 110 | 122 | 5,5 | 119 | 1,5 | 10 | 10DSR 110   |
| 22 | 30 | 4 | 28 | 1 | 7 | 10DSR 22  | 110 | 118 | 4   | 116 | 1,5 | 10 | 10DSR 110/1 |
| 24 | 32 | 4 | 30 | 1 | 7 | 10DSR 24  | 120 | 132 | 5,5 | 129 | 1,5 | 10 | 10DSR 120   |
| 25 | 33 | 4 | 31 | 1 | 7 | 10DSR 25  | 125 | 137 | 5,5 | 134 | 1,5 | 10 | 10DSR 125   |
| 28 | 36 | 4 | 34 | 1 | 7 | 10DSR 28  | 130 | 142 | 5,5 | 139 | 1,5 | 10 | 10DSR 130   |
| 30 | 38 | 4 | 36 | 1 | 7 | 10DSR 30  | 140 | 152 | 5,5 | 149 | 1,5 | 10 | 10DSR 140   |
| 32 | 40 | 4 | 38 | 1 | 7 | 10DSR 32  | 150 | 162 | 5,5 | 159 | 1,5 | 10 | 10DSR 150   |
| 35 | 43 | 4 | 41 | 1 | 7 | 10DSR 35  | 155 | 167 | 5,5 | 164 | 1,5 | 10 | 10DSR 155   |
| 36 | 44 | 4 | 42 | 1 | 7 | 10DSR 36  | 160 | 172 | 5,5 | 169 | 1,5 | 10 | 10DSR 160   |
| 38 | 46 | 4 | 44 | 1 | 7 | 10DSR 38  | 170 | 182 | 5,5 | 179 | 1,5 | 10 | 10DSR 170   |
| 40 | 48 | 4 | 46 | 1 | 7 | 10DSR 40  | 180 | 192 | 5,5 | 189 | 1,5 | 10 | 10DSR 180   |
| 42 | 50 | 4 | 48 | 1 | 7 | 10DSR 42  | 190 | 202 | 5,5 | 199 | 1,5 | 10 | 10DSR 190   |
| 45 | 53 | 4 | 51 | 1 | 7 | 10DSR 45  | 200 | 212 | 5,5 | 209 | 1,5 | 10 | 10DSR 200   |
| 48 | 56 | 4 | 54 | 1 | 7 | 10DSR 48  | 210 | 225 | 6,5 | 221 | 1,5 | 13 | 10DSR 210   |
| 50 | 58 | 4 | 56 | 1 | 7 | 10DSR 50  | 220 | 235 | 6,5 | 231 | 1,5 | 13 | 10DSR 220   |
| 52 | 60 | 4 | 58 | 1 | 7 | 10DSR 52  | 240 | 255 | 6,5 | 251 | 1,5 | 13 | 10DSR 240   |
| 55 | 63 | 4 | 61 | 1 | 7 | 10DSR 55  | 250 | 265 | 6,5 | 261 | 1,5 | 13 | 10DSR 250   |
| 56 | 64 | 4 | 62 | 1 | 7 | 10DSR 56  | 300 | 315 | 6,5 | 311 | 1,5 | 13 | 10DSR 300   |
| 60 | 68 | 4 | 66 | 1 | 7 | 10DSR 60  | 340 | 355 | 6,5 | 351 | 1,5 | 13 | 10DSR 340   |
| 62 | 70 | 4 | 68 | 1 | 7 | 10DSR 62  | 450 | 465 | 6,5 | 461 | 1,5 | 13 | 10DSR 450   |
| 63 | 71 | 4 | 69 | 1 | 7 | 10DSR 63  |     |     |     |     |     |    |             |
| 65 | 73 | 4 | 71 | 1 | 7 | 10DSR 65  |     |     |     |     |     |    |             |



The function of **11DSR...FPM** wiper is to prevent introduction of contamination into the system, to protect the guiding parts and to extend the service life of the rod seal. The wiper lip produces an effective cleaning action to avoid damage to all internal components.

The ribs on the inner surface **give stability** and prevent twisting of the wiper in the groove or sticking onto the rod.

The flush fitting with the outside diameter **reduces impurities** and moisture entering the groove.

The material used for this wiper is a fluorocarbon elastomer, especially suited for processes at **higher temperatures**. While also having better resistance to a wide range of more aggressive fuels and chemicals, its mechanical properties are not that good. (f.ex. compression set)

#### Operating conditions see page 8

|             |                                                                                                    |
|-------------|----------------------------------------------------------------------------------------------------|
| Temperature | -10°C to 180°C                                                                                     |
| Speed       | ≤ 0,8 m/s                                                                                          |
| Fluids      |  see pages 22-45 |

#### Materials see pages 10-19

|           |             |
|-----------|-------------|
| Elastomer | FPM 90 Sh A |
|-----------|-------------|

#### Assembly see pages 54-59

The wipers may easily be mounted into the grooved housing

#### Advantages

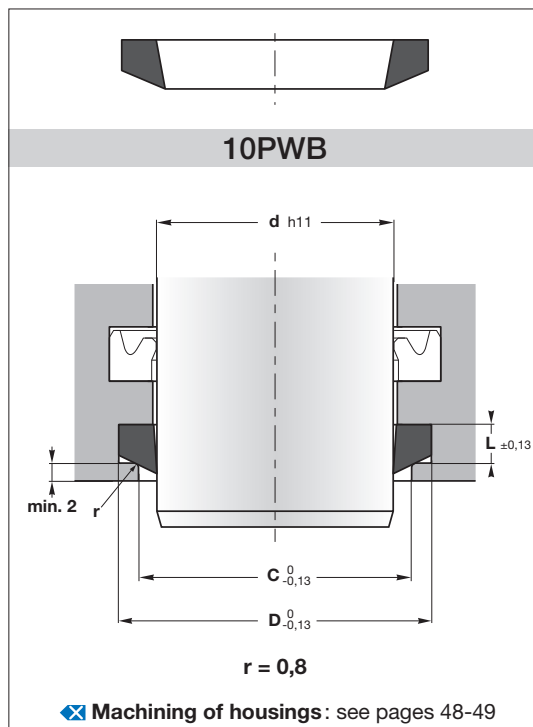
- Easy to assemble
- Small housing
- Simple groove design
- No tilting or twisting in the groove
- Up to 180°C
- Resistant to aggressive fuels and chemicals
- Flush fitting with the outer surface for a good housing protection

**Please contact us for applications approaching maximum values.**

#### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| FPM seals |     |     |     |    |               |
|-----------|-----|-----|-----|----|---------------|
| d         | D   | L   | C   | H  | Reference     |
| 16        | 24  | 4   | 22  | 7  | 11DSR 16 FPM  |
| 18        | 26  | 4   | 24  | 7  | 11DSR 18 FPM  |
| 20        | 28  | 4   | 26  | 7  | 11DSR 20 FPM  |
| 22        | 30  | 4   | 28  | 7  | 11DSR 22 FPM  |
| 25        | 33  | 4   | 31  | 7  | 11DSR 25 FPM  |
| 28        | 36  | 4   | 34  | 7  | 11DSR 28 FPM  |
| 30        | 38  | 4   | 36  | 7  | 11DSR 30 FPM  |
| 32        | 40  | 4   | 38  | 7  | 11DSR 32 FPM  |
| 35        | 43  | 4   | 41  | 7  | 11DSR 35 FPM  |
| 36        | 44  | 4   | 42  | 7  | 11DSR 36 FPM  |
| 40        | 48  | 4   | 46  | 7  | 11DSR 40 FPM  |
| 45        | 53  | 4   | 51  | 7  | 11DSR 45 FPM  |
| 50        | 58  | 4   | 56  | 7  | 11DSR 50 FPM  |
| 55        | 63  | 4   | 61  | 7  | 11DSR 55 FPM  |
| 56        | 64  | 4   | 62  | 7  | 11DSR 56 FPM  |
| 60        | 68  | 4   | 66  | 7  | 11DSR 60 FPM  |
| 63        | 71  | 4   | 69  | 7  | 11DSR 63 FPM  |
| 65        | 73  | 4   | 71  | 7  | 11DSR 65 FPM  |
| 70        | 78  | 4   | 76  | 7  | 11DSR 70 FPM  |
| 75        | 83  | 4   | 81  | 7  | 11DSR 75 FPM  |
| 80        | 88  | 4   | 86  | 7  | 11DSR 80 FPM  |
| 85        | 93  | 4   | 91  | 7  | 11DSR 85 FPM  |
| 90        | 98  | 4   | 96  | 7  | 11DSR 90 FPM  |
| 100       | 108 | 4   | 106 | 7  | 11DSR 100 FPM |
| 110       | 122 | 5,5 | 119 | 10 | 11DSR 110 FPM |
| 250       | 265 | 6,5 | 261 | 10 | 11DSR 250 FPM |



The function of **10PWB** wiper is to prevent introduction of contamination into the system, to protect the guiding parts and to extend the service life of the rod seal. The nitrile elastomer wiper tip produces a cleaning action to avoid damage to all internal components.

The wiper is classified as a light duty wiper. Its compact design is making him ideal for cylinders where **reduced space** is an important factor.

**Operating conditions**

✕ see page 8

Temperature -30°C to 100°C  
Speed ≤ 0,8 m/s  
Fluids ✕ see pages 22-45

**Materials**

✕ see pages 10-19

Elastomer NBR 90 Sh A

**Assembly**

✕ see pages 54-59

The wipers may easily be mounted into the grooved housing

**Advantages**

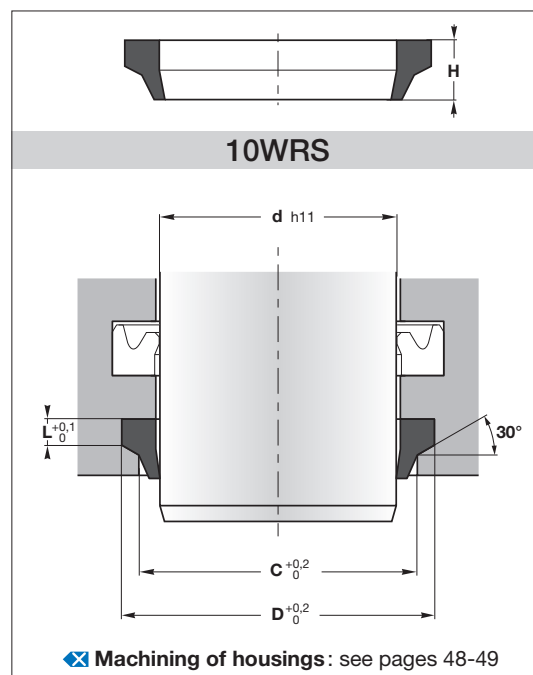
Easy to assemble  
Good price-performance ratio  
Very small housing  
Simple groove construction

**Please contact us for applications approaching maximum values.**

**More information**

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| d     | D      | C      | L    | Reference  |
|-------|--------|--------|------|------------|
| 9,52  | 13,72  | 10,92  | 3,05 | 10PWB 375  |
| 12,7  | 17,27  | 14,22  | 3,3  | 10PWB 500  |
| 15,87 | 20,83  | 17,78  | 3,56 | 10PWB 625  |
| 19,05 | 24,13  | 20,83  | 3,56 | 10PWB 750  |
| 22,22 | 27,43  | 24,13  | 3,81 | 10PWB 875  |
| 25,4  | 31,5   | 27,43  | 4,06 | 10PWB 1000 |
| 28,57 | 34,92  | 30,73  | 4,06 | 10PWB 1125 |
| 31,75 | 37,85  | 33,78  | 4,32 | 10PWB 1250 |
| 34,92 | 41,27  | 37,08  | 4,32 | 10PWB 1375 |
| 38,1  | 44,96  | 40,39  | 4,57 | 10PWB 1500 |
| 41,27 | 47,75  | 43,69  | 4,57 | 10PWB 1625 |
| 44,45 | 51,56  | 46,99  | 4,83 | 10PWB 1750 |
| 47,62 | 54,86  | 50,04  | 4,83 | 10PWB 1875 |
| 50,8  | 58,42  | 53,34  | 5,08 | 10PWB 2000 |
| 53,97 | 61,72  | 56,64  | 5,33 | 10PWB 2125 |
| 57,15 | 65,28  | 59,94  | 5,33 | 10PWB 2250 |
| 60,32 | 68,58  | 63,25  | 5,59 | 10PWB 2375 |
| 63,5  | 72,14  | 66,29  | 5,59 | 10PWB 2500 |
| 66,67 | 75,44  | 69,6   | 5,84 | 10PWB 2625 |
| 69,85 | 78,99  | 72,9   | 5,84 | 10PWB 2750 |
| 73,02 | 82,3   | 6,1    | 76,2 | 10PWB 2875 |
| 76,2  | 85,85  | 79,5   | 6,1  | 10PWB 3000 |
| 82,55 | 92,71  | 86,11  | 6,35 | 10PWB 3250 |
| 88,9  | 99,57  | 92,46  | 6,86 | 10PWB 3500 |
| 95,25 | 106,43 | 99,06  | 7,11 | 10PWB 3750 |
| 101,6 | 113,28 | 105,66 | 7,37 | 10PWB 4000 |



The function of **10WRS** wiper is to prevent introduction of contamination into the system, to protect the guiding parts and to extend the service life of the rod seal. The nitrile elastomer wiper lip produces an effective cleaning action to avoid damage to all internal components.

This type of wiper is used in cylinders for earthmoving machinery, mining cylinders or cylinders where the rod is exposed to **large deflections**.

**Operating conditions** ✦ see page 8

Temperature -30°C to 100°C  
Speed ≤ 0,5 m/s  
Fluids ✦ see pages 22-45

**Materials** ✦ see pages 10-19

Elastomer NBR 90 Sh A

**Assembly** ✦ see pages 54-59

The wipers may easily be mounted into the grooved housing

**Advantages**

Easy to assemble  
Good price-performance ratio  
Simple groove construction

**Please contact us for applications approaching maximum values.**

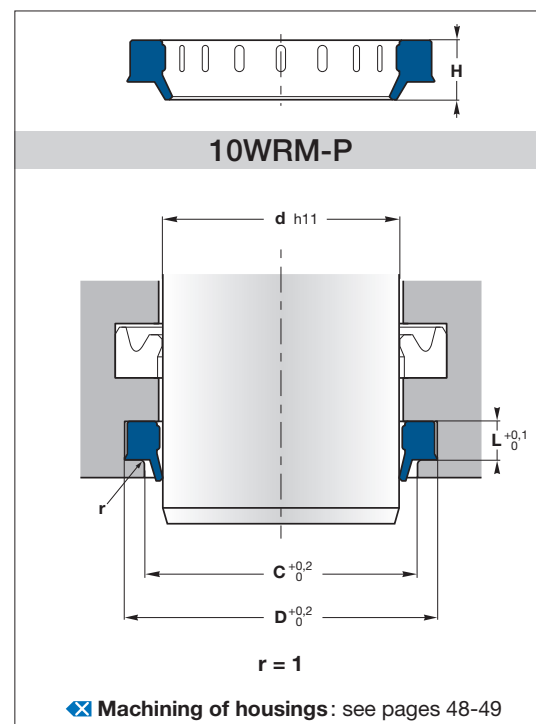
**More information**

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| Metric |       |     |       |    |              |
|--------|-------|-----|-------|----|--------------|
| d      | D     | L   | C     | H  | Reference    |
| 20     | 32,7  | 5,3 | 26,4  | 11 | 10WRS 078128 |
| 30     | 42,7  | 5,3 | 36,4  | 11 | 10WRS 118168 |
| 33     | 45,7  | 5,3 | 39,4  | 11 | 10WRS 129179 |
| 40     | 52,7  | 5,3 | 46,4  | 11 | 10WRS 157207 |
| 45     | 57,7  | 5,3 | 51,4  | 11 | 10WRS 177227 |
| 50     | 62,7  | 5,3 | 56,4  | 11 | 10WRS 196246 |
| 56     | 68,7  | 5,3 | 62,4  | 11 | 10WRS 220270 |
| 60     | 72,7  | 5,3 | 66,4  | 11 | 10WRS 236286 |
| 63     | 75,7  | 5,3 | 69,4  | 11 | 10WRS 248298 |
| 65     | 77,7  | 5,3 | 71,4  | 11 | 10WRS 255305 |
| 70     | 82,7  | 5,3 | 76,4  | 11 | 10WRS 275325 |
| 80     | 92,7  | 5,3 | 86,4  | 11 | 10WRS 315365 |
| 85     | 97,7  | 5,3 | 91,4  | 11 | 10WRS 334384 |
| 88     | 100,7 | 5,3 | 94,4  | 11 | 10WRS 346396 |
| 95     | 107,7 | 5,3 | 101,4 | 11 | 10WRS 374424 |
| 100    | 112,7 | 5,3 | 106,4 | 11 | 10WRS 393443 |
| 110    | 122,7 | 5,3 | 116,4 | 11 | 10WRS 433483 |
| 140    | 152,7 | 5,3 | 146,4 | 11 | 10WRS 551601 |

| Inch   |        |     |        |    |              |
|--------|--------|-----|--------|----|--------------|
| d      | D      | L   | C      | H  | Reference    |
| 19,05  | 31,75  | 5,3 | 25,45  | 11 | 10WRS 075125 |
| 25,4   | 38,1   | 5,3 | 31,8   | 11 | 10WRS 100150 |
| 28,57  | 41,27  | 5,3 | 34,97  | 11 | 10WRS 112162 |
| 38,1   | 50,8   | 5,3 | 44,1   | 11 | 10WRS 150200 |
| 44,45  | 57,15  | 5,3 | 50,85  | 11 | 10WRS 175225 |
| 47,62  | 60,32  | 5,3 | 54,02  | 11 | 10WRS 187237 |
| 50,8   | 63,5   | 5,3 | 57,2   | 11 | 10WRS 200250 |
| 53,97  | 66,67  | 5,3 | 60,37  | 11 | 10WRS 212262 |
| 57,15  | 69,85  | 5,3 | 63,55  | 11 | 10WRS 225275 |
| 63,5   | 76,2   | 5,3 | 69,9   | 11 | 10WRS 250300 |
| 76,2   | 88,9   | 5,3 | 82,4   | 11 | 10WRS 300350 |
| 82,55  | 95,25  | 5,3 | 88,95  | 11 | 10WRS 325375 |
| 107,95 | 120,65 | 5,3 | 114,35 | 11 | 10WRS 425475 |





The function of **10WRM-P** wiper is to prevent introduction of contamination into the system, to protect the guiding parts and to extend the service life of the rod seal. The wiper lip produces an effective cleaning action to avoid damage to all internal components.

The ribs on the inner surface **give stability** and prevent twisting of the wiper in the groove or sticking onto the rod.

**10WRM-P** is a technical improvement compared to 10WRM profile. An external sealing lip on the static side contacts the housing in order to prevent intrusion of impurities via the outer diameter.

This wiper is produced in polyurethane which ensures increased **wear resistance** and an extended service life due to good resistance against weathering.

#### Operating conditions see page 8

|             |                 |
|-------------|-----------------|
| Temperature | -30°C to 100°C  |
| Speed       | ≤ 0,8 m/s       |
| Fluids      | see pages 22-45 |

#### Materials see pages 10-19

|              |      |
|--------------|------|
| Polyurethane | PU10 |
|--------------|------|

#### Assembly see pages 54-59

The wipers may easily be mounted into the grooved housing

#### Advantages

- Good protection of the housing against external intrusion
- Excellent abrasion resistance
- Extended service life
- Easy to assemble
- Good price-performance ratio
- Simple groove construction

**Please contact us for applications approaching maximum values.**

#### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

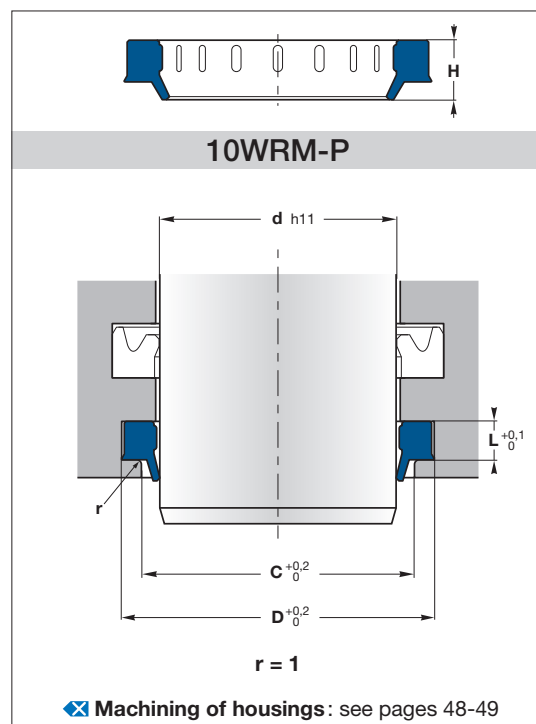
| d  | D                    | L             | C              | H           | Reference                                  |
|----|----------------------|---------------|----------------|-------------|--------------------------------------------|
| 4  | 12                   | 3             | 9              | 4,5         | 10WRM-P 04                                 |
| 5  | 12                   | 2,8           | 9              | 4           | 10WRM-P 05/S                               |
| 6  | 12                   | 3             | 9              | 4,5         | 10WRM-P 06/S                               |
| 8  | 14,6                 | 3,8           | 11             | 5           | 10WRM-P 08                                 |
| 9  | 13                   | 2,5           | 12             | 4           | 10WRM-P 09/S                               |
| 10 | 15<br>16,6           | 1<br>3,8      | 13<br>13       | 2,5<br>5    | 10WRM-P 10/S<br>10WRM-P 10                 |
| 12 | 18,6                 | 3,8           | 15             | 5           | 10WRM-P 12                                 |
| 13 | 19,6                 | 3,8           | 16             | 5           | 10WRM-P 13                                 |
| 14 | 20,6                 | 3,8           | 17             | 5           | 10WRM-P 14                                 |
| 15 | 21,6                 | 3,8           | 18             | 5           | 10WRM-P 15                                 |
| 16 | 22,5<br>22,6         | 3<br>3,8      | 19<br>19       | 4,5<br>5    | 10WRM-P 16/1<br>10WRM-P 16                 |
| 17 | 23,6                 | 3,8           | 20             | 5           | 10WRM-P 17                                 |
| 18 | 24,6                 | 3,8           | 21             | 5           | 10WRM-P 18                                 |
| 20 | 26<br>28,6           | 3,4<br>5,3    | 23<br>23       | 5<br>7      | 10WRM-P 20/1<br>10WRM-P 20                 |
| 22 | 30,6<br>30,6         | 2,2<br>5,3    | 25<br>25       | 4<br>7      | 10WRM-P 22/1<br>10WRM-P 22                 |
| 24 | 32,6<br>32,6         | 2,2<br>5,3    | 27<br>27       | 4<br>7      | 10WRM-P 24/1<br>10WRM-P 24                 |
| 25 | 33,6                 | 5,3           | 28             | 7           | 10WRM-P 25                                 |
| 28 | 36,6                 | 5,3           | 31             | 7           | 10WRM-P 28                                 |
| 30 | 38,6<br>40           | 5,3<br>3      | 33<br>34,5     | 7<br>4,5    | 10WRM-P 30<br>10WRM-P 30/1                 |
| 32 | 40<br>40,6           | 3,7<br>5,3    | 35<br>35       | 5<br>7      | 10WRM-P 32/1<br>10WRM-P 32                 |
| 33 | 41,6                 | 5,3           | 36             | 7           | 10WRM-P 33                                 |
| 35 | 43,6<br>43,6<br>43,6 | 5<br>5,3<br>5 | 38<br>38<br>38 | 7<br>7<br>7 | 10WRM-P 35/1<br>10WRM-P 35<br>10WRM-P 35/1 |
|    | 45<br>47             | 4<br>4,3      | 39<br>38       | 7<br>7      | 10WRM-P 35/1B<br>10WRM-P 35/2              |
| 36 | 44,6                 | 5,3           | 39             | 7           | 10WRM-P 36                                 |

| d  | D                    | L                 | C                | H             | Reference                                    |
|----|----------------------|-------------------|------------------|---------------|----------------------------------------------|
| 38 | 46,6<br>48,5         | 5,3<br>4,8        | 41<br>41         | 7<br>7        | 10WRM-P 38<br>10WRM-P 38/1                   |
| 40 | 48,6                 | 5,3               | 43               | 7             | 10WRM-P 40                                   |
| 42 | 50,6                 | 5,3               | 45               | 7             | 10WRM-P 42                                   |
| 45 | 53,6<br>55,6<br>60   | 5,3<br>5,3<br>4,2 | 48<br>48<br>53   | 7<br>7<br>7   | 10WRM-P 45<br>10WRM-P 45/1<br>10WRM-P 45/1B  |
| 46 | 54,6                 | 5,3               | 49               | 7             | 10WRM-P 46                                   |
| 48 | 56,6                 | 5,3               | 51               | 7             | 10WRM-P 48                                   |
| 50 | 58,6<br>60,6<br>65,5 | 5,3<br>5,3<br>4,2 | 53<br>53<br>58   | 7<br>7<br>7   | 10WRM-P 50<br>10WRM-P 50/1<br>10WRM-P 50/1B  |
| 52 | 60,6                 | 5,3               | 55               | 7             | 10WRM-P 52                                   |
| 53 | 61,6                 | 5,3               | 56               | 7             | 10WRM-P 53                                   |
| 55 | 63,6<br>65,6         | 5,3<br>5,3        | 58<br>58         | 7<br>7        | 10WRM-P 55<br>10WRM-P 55/1                   |
| 56 | 64,6<br>66,6         | 5,3<br>5,3        | 59<br>59         | 7<br>7        | 10WRM-P 56<br>10WRM-P 56/1                   |
| 60 | 68,6<br>70,6<br>70,6 | 5,3<br>5,3<br>5,5 | 63<br>64<br>66,5 | 7<br>7<br>8   | 10WRM-P 60<br>10WRM-P 60/1<br>10WRM-P 60/S   |
| 61 | 69                   | 5,3               | 64               | 7             | 10WRM-P 61/V                                 |
| 63 | 71,6<br>73,6         | 5,3<br>5,3        | 66<br>66         | 7<br>7        | 10WRM-P 63<br>10WRM-P 63/1                   |
| 65 | 73,6<br>75,6<br>76,6 | 5,3<br>5,3<br>6   | 68<br>69<br>71,5 | 7<br>7<br>7,5 | 10WRM-P 65<br>10WRM-P 65/2<br>10WRM-P 65/1   |
| 68 | 76                   | 5,3               | 71               | 7             | 10WRM-P 68/V                                 |
| 70 | 78,6<br>80<br>80     | 5,3<br>5<br>6,3   | 73<br>74<br>74   | 7<br>7<br>7,5 | 10WRM-P 70<br>10WRM-P 70/2<br>10WRM-P 70/4   |
|    | 80<br>80<br>80,55    | 5<br>7<br>5,3     | 74<br>74<br>75   | 7<br>10<br>7  | 10WRM-P 70/2<br>10WRM-P 70/3<br>10WRM-P 70/V |
|    | 82,6                 | 7,1               | 76               | 10            | 10WRM-P 70/1                                 |
| 73 | 81,6<br>83,6         | 5,3<br>7,3        | 76<br>76         | 7<br>10       | 10WRM-P 73<br>10WRM-P 73/1                   |



## 10WRM-P

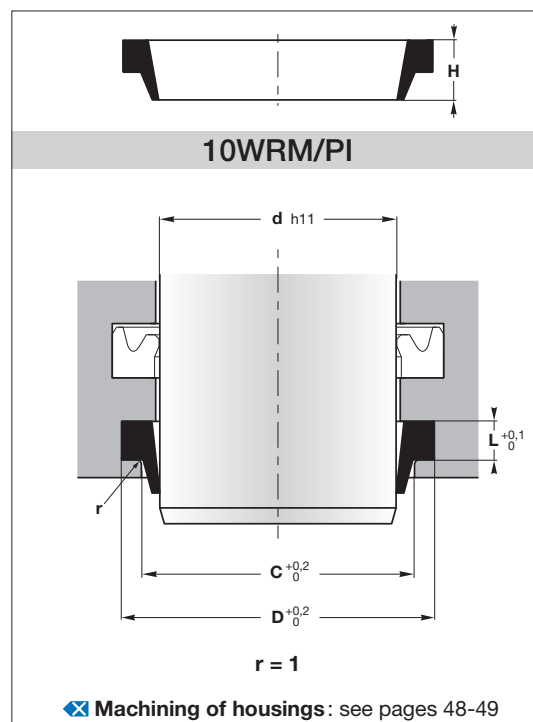
## PU rod wiper with external lip



| d   | D                           | L                        | C                    | H                   | Reference                                                   |
|-----|-----------------------------|--------------------------|----------------------|---------------------|-------------------------------------------------------------|
| 75  | 83,6<br>87,2                | 5,3<br>7,1               | 78<br>81             | 7<br>10             | 10WRM-P 75<br>10WRM-P 75/1                                  |
| 76  | 84                          | 5,3                      | 79                   | 7                   | 10WRM-P 76/V                                                |
| 78  | 86<br>88,6<br>92,2          | 5<br>5,5<br>7,1          | 81<br>84,5<br>85     | 7<br>8<br>10        | 10WRM-P 78/2<br>10WRM-P 78/S<br>10WRM-P 78                  |
| 80  | 88,6<br>90<br>90,55<br>92,2 | 5,3<br>6,3<br>5,3<br>7,1 | 83<br>84<br>85<br>86 | 7<br>7,5<br>7<br>10 | 10WRM-P 80<br>10WRM-P 80/2<br>10WRM-P 80/V1<br>10WRM-P 80/1 |
| 85  | 93,6<br>97,2                | 5,3<br>7,1               | 88<br>91             | 7<br>10             | 10WRM-P 85/1<br>10WRM-P 85                                  |
| 88  | 96                          | 5,3                      | 91                   | 7                   | 10WRM-P 88/V                                                |
| 90  | 98,6<br>102,2               | 5,3<br>7,1               | 93<br>96             | 7<br>10             | 10WRM-P 90/V<br>10WRM-P 90                                  |
| 91  | 99                          | 5,3                      | 94                   | 7                   | 10WRM-P 91/V1                                               |
| 92  | 103,6                       | 5,5                      | 97                   | 8                   | 10WRM-P 92/S                                                |
| 93  | 101                         | 5,3                      | 96                   | 7                   | 10WRM-P 93                                                  |
| 95  | 103,6<br>107,2              | 5,3<br>7,1               | 98<br>101            | 7<br>10             | 10WRM-P 95/V<br>10WRM-P 95                                  |
| 97  | 105,6                       | 5                        | 100                  | 7                   | 10WRM-P 97/2                                                |
| 99  | 109,6                       | 5,5                      | 103                  | 8                   | 10WRM-P 99                                                  |
| 100 | 108,6<br>112,2              | 5,3<br>7,1               | 103<br>106           | 7<br>10             | 10WRM-P 100/V<br>10WRM-P 100                                |
| 105 | 113,6<br>117,2              | 5,3<br>7,1               | 108<br>111           | 7<br>10             | 10WRM-P 105/V<br>10WRM-P 105                                |
| 107 | 115                         | 5,3                      | 110                  | 7                   | 10WRM-P 107/V                                               |
| 108 | 116,6                       | 5,3                      | 111                  | 7                   | 10WRM-P 108/V                                               |
| 110 | 118,6<br>122,2              | 5,3<br>7,1               | 113<br>116           | 7<br>10             | 10WRM-P 110/V<br>10WRM-P 110                                |
| 112 | 124,2                       | 7,1                      | 118                  | 10                  | 10WRM-P 112                                                 |
| 115 | 123,6<br>127,2              | 5,3<br>7,1               | 118<br>121           | 7<br>10             | 10WRM-P 115/1<br>10WRM-P 115                                |
| 118 | 126                         | 5                        | 121                  | 7                   | 10WRM-P 118/2                                               |

| d   | D                              | L                         | C                        | H                   | Reference                                                      |
|-----|--------------------------------|---------------------------|--------------------------|---------------------|----------------------------------------------------------------|
| 120 | 128,6<br>130,6<br>132,2        | 5,3<br>5,5<br>7,1         | 123<br>126,5<br>126      | 7<br>8<br>10        | 10WRM-P 120/V<br>10WRM-P 120/S<br>10WRM-P 120                  |
| 125 | 133,6<br>137,2<br>140<br>140,2 | 5,3<br>7,1<br>9,5<br>10,1 | 128<br>131<br>132<br>132 | 7<br>10<br>14<br>16 | 10WRM-P 125/V<br>10WRM-P 125<br>10WRM-P 125/3<br>10WRM-P 125/1 |
| 126 | 134                            | 5,3                       | 129                      | 7                   | 10WRM-P 126/V1                                                 |
| 128 | 140,2                          | 7,1                       | 134                      | 10                  | 10WRM-P 128                                                    |
| 130 | 138,6<br>142,2                 | 5,3<br>7,1                | 133<br>136               | 7<br>10             | 10WRM-P 130/1<br>10WRM-P 130                                   |
| 135 | 147,2<br>150                   | 7,1<br>9,5                | 141<br>145               | 10<br>14            | 10WRM-P 135<br>10WRM-P 135/1                                   |
| 140 | 148,6<br>148,6<br>152,2        | 5,3<br>6<br>7,1           | 143<br>143<br>146        | 7<br>7,5<br>10      | 10WRM-P 140/V<br>10WRM-P 140/2<br>10WRM-P 140                  |
|     | 155<br>155,2                   | 9<br>10,1                 | 147<br>148               | 14<br>16            | 10WRM-P 140/1<br>10WRM-P 140/3                                 |
| 141 | 151,6                          | 5,5                       | 147,5                    | 8                   | 10WRM-P 141/S                                                  |
| 143 | 151<br>151                     | 5<br>5,5                  | 146<br>147               | 7<br>8              | 10WRM-P 143/2<br>10WRM-P 143                                   |
| 145 | 157,2                          | 7,1                       | 151                      | 10                  | 10WRM-P 145                                                    |
| 150 | 158,6<br>162,2<br>165,2        | 5,3<br>7,1<br>10,1        | 153<br>156<br>158        | 7<br>10<br>16       | 10WRM-P 150/2<br>10WRM-P 150<br>10WRM-P 150/3                  |
| 155 | 163,6<br>167,2                 | 5,3<br>7,1                | 158<br>161               | 7<br>10             | 10WRM-P 155/V<br>10WRM-P 155                                   |
| 160 | 168,6<br>172,2<br>175          | 5,3<br>7,1<br>9,5         | 163<br>166<br>170        | 7<br>10<br>14       | 10WRM-P 160/V<br>10WRM-P 160/1<br>10WRM-P 160/2                |
|     | 175,2                          | 10,1                      | 167,6                    | 16                  | 10WRM-P 160                                                    |
| 162 | 172,6                          | 5,5                       | 168                      | 8                   | 10WRM-P 162/S                                                  |
| 165 | 180,2                          | 10,1                      | 172,6                    | 16                  | 10WRM-P 165/5                                                  |
| 170 | 178,6<br>180,6<br>185,2        | 5,3<br>5,3<br>10,1        | 173<br>173<br>178        | 7<br>7<br>16        | 10WRM-P 170/V<br>10WRM-P 170/2<br>10WRM-P 170                  |

| d   | D                       | L                   | C                 | H             | Reference                                     |
|-----|-------------------------|---------------------|-------------------|---------------|-----------------------------------------------|
| 180 | 188,6<br>188,6<br>195,2 | 5,3<br>5,3<br>10,1  | 183<br>183<br>188 | 7<br>7<br>16  | 10WRM-P 180/V<br>10WRM-P 180/1<br>10WRM-P 180 |
|     | 200<br>200              | 7<br>10,2           | 188<br>190        | 10<br>18      | 10WRM-P 180/2<br>10WRM-P 180/3                |
| 183 | 193,6                   | 5,5                 | 189               | 8             | 10WRM-P 183/S                                 |
| 185 | 193,6                   | 5,3                 | 188               | 7             | 10WRM-P 185/V                                 |
| 190 | 198,6<br>205,2<br>210   | 5,3<br>10,1<br>10,1 | 193<br>198<br>200 | 7<br>16<br>16 | 10WRM-P 190/2<br>10WRM-P 190<br>10WRM-P 190/1 |
| 196 | 210,2                   | 7,1                 | 203               | 10            | 10WRM-P 196                                   |
| 200 | 208,6<br>215<br>215,2   | 5,3<br>9,5<br>10,1  | 203<br>210<br>208 | 7<br>14<br>16 | 10WRM-P 200/V<br>10WRM-P 200/2<br>10WRM-P 200 |
|     | 220                     | 10,2                | 210               | 18            | 10WRM-P 200/3                                 |
| 205 | 213,6                   | 5,3                 | 208               | 7             | 10WRM-P 205/V                                 |
| 207 | 217,6                   | 5,5                 | 213               | 8             | 10WRM-P 207/S                                 |
| 210 | 225,2                   | 10,1                | 218               | 16            | 10WRM-P 210                                   |
| 220 | 235,2<br>240            | 10,1<br>10,1        | 228<br>230        | 16<br>16      | 10WRM-P 220<br>10WRM-P 220/1                  |
| 221 | 230                     | 5,1                 | 224               | 7             | 10WRM-P 221/V                                 |
| 228 | 236,6                   | 5,3                 | 231               | 7             | 10WRM-P 228/V                                 |
| 230 | 245,2                   | 10,1                | 238               | 16            | 10WRM-P 230                                   |
| 240 | 255,2<br>260            | 10,1<br>10,2        | 248<br>250        | 16<br>16      | 10WRM-P 240<br>10WRM-P 240/1                  |
| 250 | 265,2<br>270            | 10,1<br>10,2        | 258<br>260        | 16<br>16      | 10WRM-P 250<br>10WRM-P 250/1                  |
| 260 | 275,2<br>280            | 10,1<br>10,2        | 268<br>270        | 16<br>16      | 10WRM-P 260/5<br>10WRM-P 260                  |
| 270 | 285,2                   | 10,1                | 278               | 16            | 10WRM-P 270/5                                 |
| 275 | 290,2                   | 10,1                | 283               | 16            | 10WRM-P 275/5                                 |
| 280 | 295,2<br>300            | 10,1<br>10,1        | 288<br>290        | 16<br>16      | 10WRM-P 280/5<br>10WRM-P 280/1                |
| 290 | 305,2                   | 10,1                | 298               | 16            | 10WRM-P 290/5                                 |
| 300 | 315,2                   | 10,1                | 308               | 16            | 10WRM-P 300/5                                 |

✦ **Machining of housings:** see pages 48-49

The function of **10WRM-PI** wiper is to prevent introduction contamination into the system, to protect the guiding parts and to extend the service life of the rod seal. The wiper lip produces an effective cleaning action to avoid damage to all internal components.

This wiper is produced in polyurethane which ensures increased **wear resistance** and an extended service life due to good resistance against weathering.

**Operating conditions** ✦ see page 8

Temperature -30°C to 100°C  
Speed ≤ 0,8 m/s  
Fluids ✦ see pages 22-45

**Materials** ✦ see pages 10-19

Polyurethane PU27

**Assembly** ✦ see pages 54-59

The wipers may easily be mounted into the grooved housing

**Advantages**

Excellent abrasion resistance  
Extended service life  
Easy to assemble  
Good price-performance ratio  
Small housing  
Simple groove construction

**Please contact us for applications approaching maximum values.**

**More information**

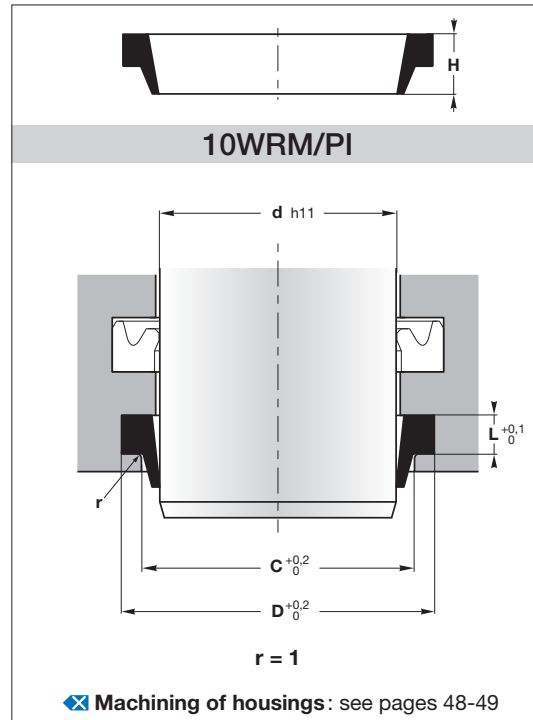
On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| Inch dimensions |       |      |       |     |          | Reference |
|-----------------|-------|------|-------|-----|----------|-----------|
| d               | D     | L    | C     | H   |          |           |
| 12,7            | 19,05 | 3,2  | 16,76 | 5   | 10WRM/PI | 050075    |
| 15,9            | 22,22 | 3,2  | 19,94 | 5   | 10WRM/PI | 062087    |
| 19,05           | 25,65 | 2,72 | 22,78 | 3,9 | 10WRM/PI | 075101    |
|                 | 28,57 | 4,8  | 24,88 | 7,1 | 10WRM/PI | 075112    |
| 22,22           | 29,16 | 2,72 | 25,98 | 3,9 | 10WRM/PI | 087114    |
|                 | 31,75 | 4,8  | 28,45 | 7,1 | 10WRM/PI | 087125    |
| 25,4            | 32,33 | 2,72 | 29,16 | 3,9 | 10WRM/PI | 100127    |
|                 | 34,92 | 4,8  | 31,62 | 7,1 | 10WRM/PI | 100137    |
| 28,57           | 35,51 | 2,72 | 32,33 | 3,9 | 10WRM/PI | 112139    |
|                 | 38,1  | 4,8  | 34,5  | 7,1 | 10WRM/PI | 112150    |
| 31,75           | 38,68 | 2,72 | 35,51 | 3,9 | 10WRM/PI | 125152    |
|                 | 41,27 | 4,8  | 37,97 | 7,1 | 10WRM/PI | 125162    |
| 34,92           | 42,6  | 2,72 | 39,17 | 3,9 | 10WRM/PI | 137167    |
|                 | 44,45 | 4,8  | 41,14 | 7,1 | 10WRM/PI | 137175    |
| 38,1            | 45,77 | 2,72 | 42,37 | 3,9 | 10WRM/PI | 150180    |
|                 | 47,62 | 4,8  | 44,32 | 7,1 | 10WRM/PI | 150187    |
| 41,27           | 48,94 | 2,72 | 45,8  | 3,9 | 10WRM/PI | 162193    |
|                 | 50,8  | 4,8  | 47,5  | 7,1 | 10WRM/PI | 162200    |
| 44,45           | 52,12 | 2,72 | 48,72 | 3,9 | 10WRM/PI | 175205    |
|                 | 53,97 | 4,8  | 50,67 | 7,1 | 10WRM/PI | 175212    |
| 47,62           | 57,15 | 4,8  | 53,85 | 7,1 | 10WRM/PI | 187225    |
| 50,8            | 58,47 | 2,72 | 55,32 | 3,9 | 10WRM/PI | 200230    |
|                 | 63,5  | 6,4  | 59,18 | 9,6 | 10WRM/PI | 200250    |
| 53,97           | 61,65 | 2,72 | 58,5  | 3,9 | 10WRM/PI | 212243    |
|                 | 66,67 | 6,4  | 62,28 | 9,6 | 10WRM/PI | 212262    |
| 57,15           | 64,82 | 2,72 | 61,67 | 3,9 | 10WRM/PI | 225255    |
|                 | 69,85 | 6,4  | 65,46 | 9,6 | 10WRM/PI | 225275    |
| 60,32           | 73,02 | 6,4  | 68,63 | 9,6 | 10WRM/PI | 237287    |
| 63,5            | 71,17 | 2,72 | 68,02 | 3,9 | 10WRM/PI | 250280    |
|                 | 76,2  | 6,4  | 71,81 | 9,6 | 10WRM/PI | 250300    |
| 66,67           | 79,37 | 6,4  | 74,98 | 9,6 | 10WRM/PI | 262312    |
| 69,85           | 79,1  | 3,1  | 75,16 | 4,5 | 10WRM/PI | 275311    |
|                 | 82,55 | 6,4  | 78,17 | 9,6 | 10WRM/PI | 275325    |

| Inch dimensions |        |      |        |      |          | Reference |
|-----------------|--------|------|--------|------|----------|-----------|
| d               | D      | L    | C      | H    |          |           |
| 73,02           | 85,72  | 6,4  | 81,33  | 9,6  | 10WRM/PI | 287337    |
| 76,2            | 85,45  | 3,1  | 81,51  | 4,5  | 10WRM/PI | 300336    |
|                 | 88,9   | 6,4  | 84,51  | 9,6  | 10WRM/PI | 300350    |
| 79,37           | 92,02  | 6,4  | 87,68  | 9,6  | 10WRM/PI | 312362    |
| 82,55           | 91,8   | 3,1  | 87,86  | 4,5  | 10WRM/PI | 325361    |
|                 | 95,25  | 6,4  | 90,86  | 9,6  | 10WRM/PI | 325375    |
| 85,72           | 98,42  | 6,4  | 94,03  | 9,6  | 10WRM/PI | 337387    |
| 88,9            | 98,15  | 3,1  | 94,21  | 4,5  | 10WRM/PI | 350386    |
|                 | 101,6  | 6,4  | 97,2   | 9,6  | 10WRM/PI | 350400    |
| 92,02           | 101,32 | 3,1  | 97,3   | 4,5  | 10WRM/PI | 362399    |
|                 | 104,77 | 6,4  | 100,38 | 9,6  | 10WRM/PI | 362412    |
| 95,25           | 104,5  | 3,1  | 100,56 | 4,5  | 10WRM/PI | 375411    |
|                 | 107,95 | 6,4  | 103,56 | 9,6  | 10WRM/PI | 375425    |
|                 | 107,95 | 6,4  | 106,73 | 9,6  | 10WRM/PI | 387437    |
| 101,6           | 112,45 | 3,51 | 107,7  | 5,5  | 10WRM/PI | 400442    |
|                 | 114,3  | 6,4  | 109,9  | 9,6  | 10WRM/PI | 400450    |
| 107,95          | 118,8  | 3,51 | 114,05 | 5,5  | 10WRM/PI | 425467    |
|                 | 120,65 | 6,4  | 116,26 | 9,6  | 10WRM/PI | 425475    |
| 111,13          | 123,82 | 6,4  | 119,43 | 9,6  | 10WRM/PI | 437487    |
| 114,3           | 125,15 | 3,51 | 120,4  | 5,5  | 10WRM/PI | 450492    |
|                 | 127    | 6,4  | 122,61 | 9,6  | 10WRM/PI | 450500    |
|                 | 133,35 | 9,52 | 126,82 | 14,5 | 10WRM/PI | 450525    |
| 120,65          | 131,5  | 3,51 | 126,75 | 5,5  | 10WRM/PI | 475517    |
|                 | 139,7  | 9,52 | 133,17 | 14,5 | 10WRM/PI | 475550    |
| 127             | 137,85 | 3,51 | 133,1  | 5,5  | 10WRM/PI | 500542    |
|                 | 146,05 | 9,52 | 139,52 | 14,5 | 10WRM/PI | 500575    |
| 133,35          | 144,2  | 3,51 | 139,45 | 5,5  | 10WRM/PI | 525577    |
|                 | 146,05 | 6,4  | 139,7  | 9,6  | 10WRM/PI | 525575    |
|                 | 146,56 | 3,51 | 139,5  | 5,5  | 10WRM/PI | 525577    |
|                 | 152,4  | 9,52 | 145,87 | 14,5 | 10WRM/PI | 525600    |
| 139,7           | 150,55 | 3,51 | 145,8  | 5,5  | 10WRM/PI | 550592    |
|                 | 158,75 | 9,52 | 152,22 | 14,5 | 10WRM/PI | 550625    |
| 146,05          | 158,47 | 3,92 | 152,96 | 6    | 10WRM/PI | 575623    |
|                 | 165,1  | 9,52 | 158,57 | 14,5 | 10WRM/PI | 575650    |
| 152,4           | 164,82 | 3,92 | 159,31 | 6    | 10WRM/PI | 600648    |
|                 | 171,45 | 9,52 | 164,92 | 14,5 | 10WRM/PI | 600675    |

10WRM/PI wipers with diameters between 20 and 1500 mm can be manufactured within short delivery time.

For prices and availability: [www.sealtech-business.be](http://www.sealtech-business.be)



The function of **10WRM-PI** wiper is to prevent introduction contamination into the system, to protect the guiding parts and to extend the service life of the rod seal. The wiper lip produces an effective cleaning action to avoid damage to all internal components.

This wiper is produced in polyurethane which ensures increased **wear resistance** and an extended service life due to good resistance against weathering.

**Operating conditions** ✕ see page 8

Temperature -30°C to 100°C  
Speed  $\leq 0,8$  m/s  
Fluids ✕ see pages 22-45

**Materials** ✕ see pages 10-19

Polyurethane PU27

**Assembly** ✕ see pages 54-59

The wipers may easily be mounted into the grooved housing

**Advantages**

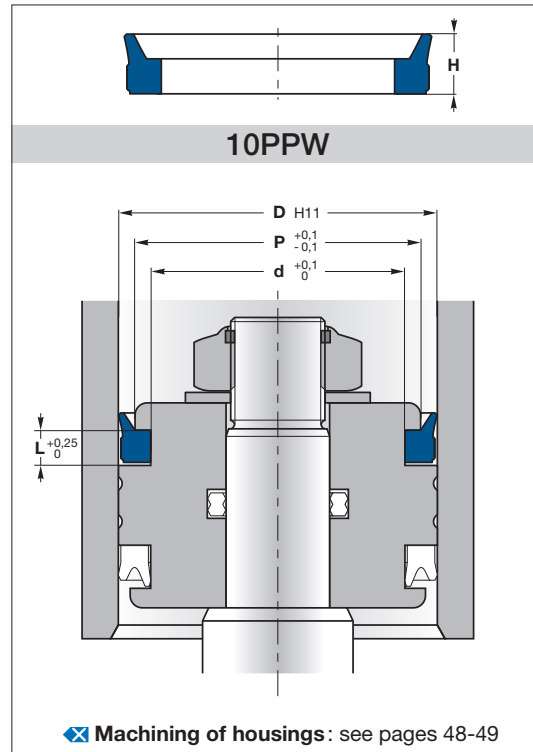
Excellent abrasion resistance  
Extended service life  
Easy to assemble  
Good price-performance ratio  
Small housing  
Simple groove construction

**Please contact us for applications approaching maximum values.**

**More information**

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| Inch dimensions |                  |              |                  |           |                                    |
|-----------------|------------------|--------------|------------------|-----------|------------------------------------|
| d               | D                | L            | C                | H         | Reference                          |
| 158,75          | 177,8            | 9,52         | 171,27           | 14,5      | 10WRM/PI 625700                    |
| 165,1           | 177,52<br>184,15 | 3,92<br>9,52 | 172,01<br>177,62 | 6<br>14,5 | 10WRM/PI 650698<br>10WRM/PI 650725 |
| 171,45          | 190,5            | 9,52         | 183,97           | 14,5      | 10WRM/PI 675750                    |
| 177,8           | 190,22<br>196,85 | 3,92<br>9,52 | 184,71<br>190,32 | 6<br>14,5 | 10WRM/PI 700748<br>10WRM/PI 700775 |
| 184,15          | 203,2            | 9,52         | 196,67           | 14,5      | 10WRM/PI 725800                    |
| 190,5           | 202,92<br>209,55 | 3,92<br>9,52 | 197,41<br>203,02 | 6<br>14,5 | 10WRM/PI 750798<br>10WRM/PI 750825 |
| 203,2           | 215,62<br>222,25 | 3,92<br>9,52 | 210,11<br>215,72 | 6<br>14,5 | 10WRM/PI 800848<br>10WRM/PI 800875 |
| 228,6           | 241,02<br>247,65 | 3,92<br>9,52 | 235,51<br>241,12 | 6<br>14,5 | 10WRM/PI 900948<br>10WRM/PI 900975 |



The function of **10PPW** external wiper is to prevent the introduction of contamination into single-acting cylinders which have an opening to the atmosphere on one side. The wiper lip produces an effective cleaning action on the cylinder surface and protects the guiding parts and the piston seal.

This wiper is produced in polyurethane which ensures increased **wear resistance** and an extended service life due to good resistance against weathering.

**Operating conditions**  see page 8

Temperature -30°C to 100°C  
Speed  $\leq 0,8$  m/s  
Fluids  see pages 22-45

**Materials**  see pages 10-19

Polyurethane PU10

**Assembly**  see pages 54-59

On one-piece pistons

**Advantages**

Excellent abrasion resistance  
Extended service life  
Easy to assemble  
Good price-performance ratio  
Small housing  
Simple groove construction

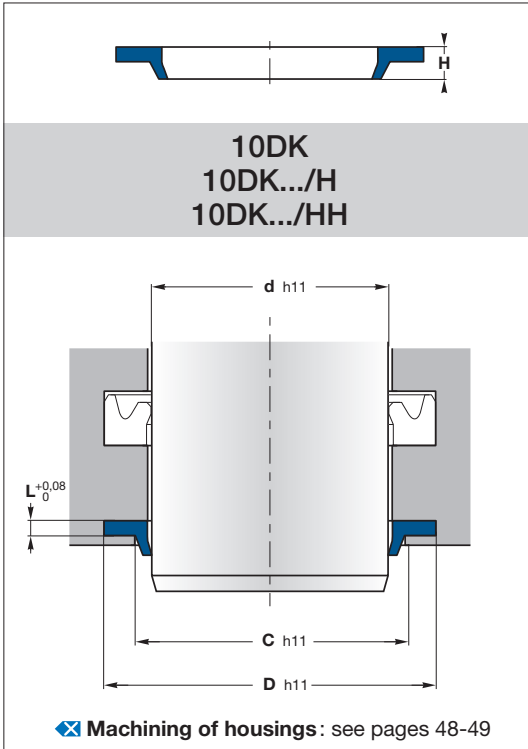
**Please contact us for applications approaching maximum values.**

**More information**

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| D   | d     | L   | P   | H | Reference |
|-----|-------|-----|-----|---|-----------|
| 40  | 31,4  | 5,3 | 37  | 7 | 10PPW 040 |
| 45  | 36,4  | 5,3 | 42  | 7 | 10PPW 045 |
| 50  | 41,4  | 5,3 | 47  | 7 | 10PPW 050 |
| 60  | 51,4  | 5,3 | 57  | 7 | 10PPW 060 |
| 63  | 54,4  | 5,3 | 60  | 7 | 10PPW 063 |
| 70  | 61,4  | 5,3 | 67  | 7 | 10PPW 070 |
| 75  | 66,4  | 5,3 | 72  | 7 | 10PPW 075 |
| 80  | 71,4  | 5,3 | 77  | 7 | 10PPW 080 |
| 90  | 81,4  | 5,3 | 87  | 7 | 10PPW 090 |
| 95  | 86,4  | 5,3 | 92  | 7 | 10PPW 095 |
| 100 | 91,4  | 5,3 | 97  | 7 | 10PPW 100 |
| 110 | 101,4 | 5,3 | 107 | 7 | 10PPW 110 |
| 115 | 106,4 | 5,3 | 112 | 7 | 10PPW 115 |
| 120 | 111,4 | 5,3 | 117 | 7 | 10PPW 120 |
| 125 | 116,4 | 5,3 | 122 | 7 | 10PPW 125 |
| 130 | 121,4 | 5,3 | 127 | 7 | 10PPW 130 |
| 140 | 131,4 | 5,3 | 137 | 7 | 10PPW 140 |





The function of **10DK** wiper is to prevent introduction of contamination into the system, to protect the guiding parts and to extend the service life of the rod seal. The wiper lip produces an effective cleaning action to avoid damage to all internal components.

The wiper has a small height making it ideal for use where reduced space is an important factor. This wiper is produced in polyurethane which ensures increased **wear resistance** and an extended service life due to good resistance against weathering.

**Operating conditions** see page 8

Temperature -30°C to 100°C  
Speed ≤ 0,8 m/s  
Fluids see pages 22-45

**Materials** see pages 10-19

Polyurethane

**Assembly** see pages 54-59

The wipers may easily be mounted into the grooved housing

**Advantages**

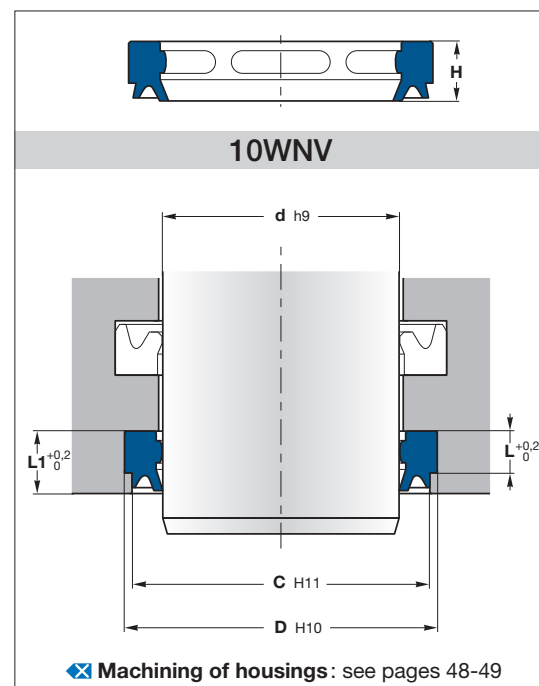
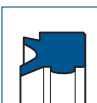
Excellent abrasion resistance  
Extended service life  
Easy to assemble  
Very small housing

**Please contact us for applications approaching maximum values.**

**More information**

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| d   | D    | L    | C     | H   | Reference  |
|-----|------|------|-------|-----|------------|
| 18  | 26   | 1,3  | 20,9  | 4,8 | 10DK 18    |
| 20  | 27,5 | 1,6  | 22,9  | 5,3 | 10DK 20    |
| 25  | 32,5 | 1,6  | 27,9  | 5,3 | 10DK 25    |
| 30  | 37,5 | 1,6  | 32,9  | 5,3 | 10DK 30    |
| 32  | 39,5 | 1,6  | 34,9  | 5,3 | 10DK 32    |
| 33  | 40,5 | 1,8  | 35,9  | 3,6 | 10DK 33/HH |
| 35  | 42,5 | 1,6  | 37,9  | 5,3 | 10DK 35    |
| 40  | 47,5 | 1,6  | 42,9  | 5,3 | 10DK 40    |
| 45  | 52,5 | 1,8  | 47,9  | 3,6 | 10DK 45/HH |
| 50  | 60   | 2,1  | 54,6  | 4   | 10DK 50    |
|     | 60   | 2,9  | 54,6  | 5   | 10DK 50/HH |
| 55  | 65   | 2,15 | 59,6  | 4   | 10DK 55    |
| 60  | 70   | 2,15 | 64,6  | 4   | 10DK 60    |
| 63  | 73   | 2,9  | 67,6  | 5   | 10DK 63/HH |
| 65  | 75   | 2,15 | 69,6  | 4   | 10DK 65    |
| 70  | 80   | 2,15 | 74,6  | 4   | 10DK 70    |
| 75  | 85   | 2,15 | 79,6  | 4   | 10DK 75    |
| 78  | 92   | 3,3  | 82,6  | 9   | 10DK 78/H  |
| 80  | 90   | 2,9  | 84,6  | 5   | 10DK 80/HH |
|     | 90   | 2,1  | 84,6  | 4   | 10DK 80    |
| 85  | 95   | 2,15 | 89,6  | 4   | 10DK 85    |
| 90  | 100  | 2,15 | 94,6  | 4   | 10DK 90    |
| 95  | 105  | 2,15 | 99,6  | 4   | 10DK 95    |
| 100 | 110  | 2,15 | 104,6 | 4   | 10DK 100   |
| 125 | 135  | 2,15 | 129,6 | 4   | 10DK 125   |
| 140 | 150  | 2,15 | 144,6 | 4   | 10DK 140   |



The function of **10WNV** wiper is to prevent introduction of contamination into the system, to protect the guiding parts and to extend the service life of the rod seal. The wiper lip produces an effective cleaning action to avoid damage to all internal components.

The sealing lip on the static side **stops the intrusion of impurities** and moisture via the outer diameter even before entering the groove. The ribs on the inner surface give stability and prevent twisting of the wiper in the groove or sticking onto the rod.

This wiper is produced in polyurethane which ensures increased **wear resistance** and an extended service life due to good resistance against weathering.

#### Operating conditions see page 8

|             |                                                                                                    |
|-------------|----------------------------------------------------------------------------------------------------|
| Temperature | -30°C to 100°C                                                                                     |
| Speed       | ≤ 1 m/s                                                                                            |
| Fluids      |  see pages 22-45 |

#### Materials see pages 10-19

Polyurethane

#### Assembly see pages 54-59

The wipers may easily be mounted into the grooved housing

#### Advantages

Very good protection of the housing against external intrusion and moisture  
No tilting or twisting in the groove  
Excellent abrasion resistance  
Extended service life  
Easy to assemble  
Most housings in accordance to ISO 6195/A  
Simple groove construction

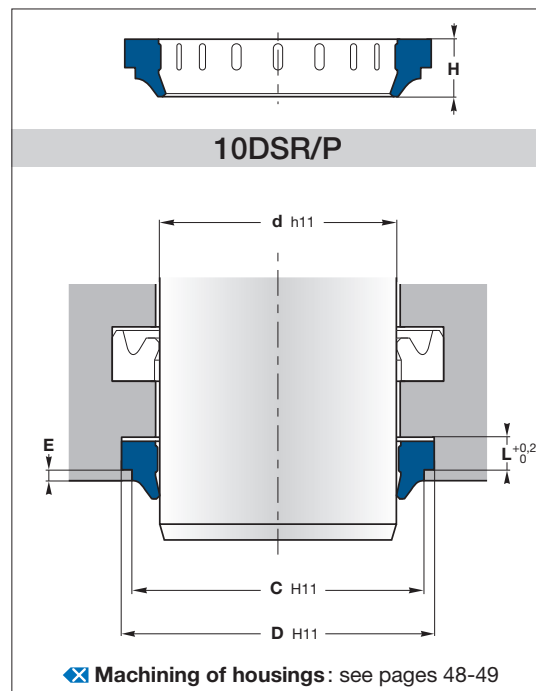
**Please contact us for applications approaching maximum values.**

#### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| d  | D  | L   | C    | L1  | H   | Reference  |
|----|----|-----|------|-----|-----|------------|
| 16 | 24 | 5   | 21,5 | 7   | 7,8 | 10WNV 16   |
| 18 | 26 | 5   | 23,5 | 7   | 7,8 | 10WNV 18   |
| 20 | 28 | 5   | 25,5 | 7   | 7,8 | 10WNV 20   |
|    | 28 | 4   | 26   | 6   | 6,7 | 10WNV 20/1 |
| 22 | 30 | 5   | 27,5 | 7   | 7,8 | 10WNV 22   |
|    | 30 | 4   | 28   | 6   | 6,7 | 10WNV 22/1 |
| 25 | 33 | 5   | 30,5 | 7   | 7,8 | 10WNV 25   |
|    | 33 | 4   | 31   | 6   | 6,7 | 10WNV 25/1 |
| 28 | 36 | 5   | 33,5 | 7   | 7,8 | 10WNV 28   |
|    | 36 | 4   | 34   | 6   | 6,7 | 10WNV 28/1 |
| 30 | 38 | 4   | 36   | 6   | 6,7 | 10WNV 30   |
| 32 | 40 | 5   | 37,5 | 7   | 7,8 | 10WNV 32   |
|    | 40 | 4   | 38   | 6   | 6,7 | 10WNV 32/1 |
| 35 | 43 | 4   | 41   | 6   | 6,7 | 10WNV 35   |
| 36 | 44 | 5   | 41,5 | 7   | 7,8 | 10WNV 36   |
|    | 44 | 4   | 42   | 6   | 6,7 | 10WNV 36/1 |
| 40 | 48 | 5   | 45,5 | 7   | 7,8 | 10WNV 40   |
|    | 48 | 4   | 46   | 6   | 6,7 | 10WNV 40/1 |
| 45 | 53 | 5   | 50,5 | 7   | 7,8 | 10WNV 45   |
|    | 53 | 4   | 51   | 6   | 6,7 | 10WNV 45/1 |
| 50 | 58 | 5   | 55,5 | 7   | 7,8 | 10WNV 50   |
|    | 58 | 4   | 56   | 6   | 6,7 | 10WNV 50/1 |
| 55 | 63 | 4   | 61   | 6   | 6,7 | 10WNV 55/1 |
|    | 65 | 6,3 | 62   | 8,3 | 9   | 10WNV 55   |
| 56 | 66 | 6,3 | 63   | 8,3 | 9   | 10WNV 56   |

| d   | D   | L   | C    | L1  | H   | Reference  |
|-----|-----|-----|------|-----|-----|------------|
| 60  | 68  | 5   | 65,5 | 7   | 7,8 | 10WNV 60/2 |
|     | 68  | 4   | 66   | 6   | 6,7 | 10WNV 60   |
|     | 68  | 5   | 65,5 | 7   | 7,8 | 10WNV 60/2 |
|     | 70  | 6,3 | 67   | 8,3 | 9   | 10WNV 60/3 |
|     | 72  | 5,5 | 69   | 7   | 10  | 10WNV 60/1 |
| 63  | 73  | 6,3 | 70   | 8,3 | 9   | 10WNV 63   |
| 70  | 78  | 4   | 76   | 6   | 6,7 | 10WNV 70/1 |
|     | 80  | 6,3 | 77   | 8,3 | 9   | 10WNV 70   |
|     | 82  | 5,5 | 79   | 7   | 10  | 10WNV 70/2 |
| 75  | 83  | 4   | 81   | 6   | 6,7 | 10WNV 75   |
| 80  | 88  | 4   | 86   | 6   | 6,7 | 10WNV 80/1 |
|     | 90  | 6,3 | 87   | 8,3 | 9   | 10WNV 80   |
|     | 92  | 5,5 | 89   | 7   | 10  | 10WNV 80/2 |
| 85  | 95  | 6,3 | 92   | 8,3 | 10  | 10WNV 85   |
| 90  | 98  | 4   | 96   | 6   | 6,7 | 10WNV 90/1 |
|     | 100 | 6,3 | 97   | 8,3 | 9   | 10WNV 90   |
|     | 102 | 5,5 | 99   | 7   | 10  | 10WNV 90/2 |
| 100 | 115 | 9,5 | 110  | 12  | 13  | 10WNV 100  |
| 110 | 125 | 9,5 | 120  | 12  | 13  | 10WNV 110  |
| 115 | 127 | 5,5 | 124  | 7   | 10  | 10WNV 115  |
| 125 | 140 | 9,5 | 135  | 12  | 13  | 10WNV 125  |
| 140 | 155 | 9,5 | 150  | 12  | 13  | 10WNV 140  |
| 150 | 165 | 9,5 | 160  | 12  | 13  | 10WNV 150  |
| 160 | 175 | 9,5 | 170  | 12  | 13  | 10WNV 160  |
| 180 | 195 | 9,5 | 190  | 12  | 13  | 10WNV 180  |
| 200 | 215 | 9,5 | 210  | 12  | 13  | 10WNV 200  |



The function of **10DSR-P** wiper is to prevent introduction of contamination into the system, to protect the guiding parts and to extend the service life of the rod seal. The wiper lip produces an effective cleaning action to avoid damage to all internal components.

The ribs on the inner surface **give stability** and prevent twisting of the wiper in the groove or sticking onto the rod.

The flush fitting with the outside diameter **reduces impurities** and moisture entering the groove.

This wiper is produced in polyurethane which ensures increased **wear resistance** and an extended service life due to good resistance against weathering.

#### Operating conditions

✕ see page 8

|             |                   |
|-------------|-------------------|
| Temperature | -30°C to 100°C    |
| Speed       | ≤ 0,8 m/s         |
| Fluids      | ✕ see pages 22-45 |

#### Materials

✕ see pages 10-19

|              |      |
|--------------|------|
| Polyurethane | PU10 |
|--------------|------|

#### Assembly

✕ see pages 54-59

The wipers may easily be mounted into the grooved housing

#### Advantages

- Flush fitting with the outer surface for a good housing protection
- Excellent abrasion resistance
- Extended service life
- Easy to assemble
- Small housing
- Good price-performance ratio
- Simple groove construction

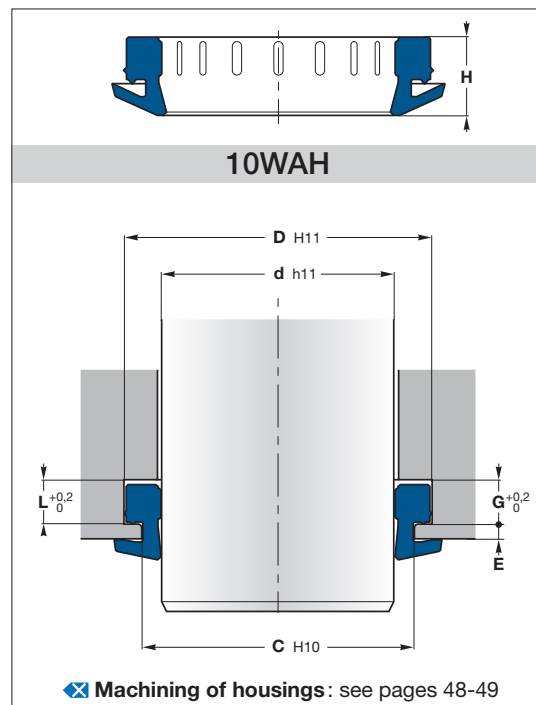
Please contact us for applications approaching maximum values.

#### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| d  | D  | L   | C  | E   | H  | Reference    |
|----|----|-----|----|-----|----|--------------|
| 6  | 10 | 2,2 | 9  | 1   | 7  | 10DSR/P 06   |
| 7  | 11 | 2,2 | 10 | 1   | 7  | 10DSR/P 07   |
| 8  | 14 | 2,6 | 12 | 1   | 7  | 10DSR/P 08   |
| 10 | 16 | 2,6 | 14 | 1   | 7  | 10DSR/P 10/1 |
| 12 | 18 | 2,6 | 16 | 1   | 7  | 10DSR/P 12/1 |
| 12 | 20 | 4   | 18 | 1   | 7  | 10DSR/P 12   |
| 14 | 20 | 2,6 | 18 | 1   | 7  | 10DSR/P 14/1 |
| 16 | 24 | 4   | 22 | 1   | 7  | 10DSR/P 16   |
| 18 | 26 | 4   | 24 | 1   | 7  | 10DSR/P 18   |
| 20 | 28 | 4   | 26 | 1   | 7  | 10DSR/P 20   |
| 22 | 30 | 4   | 28 | 1   | 7  | 10DSR/P 22   |
| 24 | 32 | 4   | 30 | 1   | 7  | 10DSR/P 24   |
| 25 | 33 | 4   | 31 | 1   | 7  | 10DSR/P 25   |
| 28 | 36 | 4   | 34 | 1   | 7  | 10DSR/P 28   |
| 30 | 38 | 4   | 36 | 1   | 7  | 10DSR/P 30   |
| 32 | 40 | 4   | 38 | 1   | 7  | 10DSR/P 32   |
| 35 | 43 | 4   | 41 | 1   | 7  | 10DSR/P 35   |
| 36 | 44 | 4   | 42 | 1   | 7  | 10DSR/P 36   |
| 38 | 46 | 4   | 44 | 1   | 7  | 10DSR/P 38   |
| 40 | 48 | 4   | 46 | 1   | 7  | 10DSR/P 40   |
| 42 | 50 | 4   | 48 | 1   | 7  | 10DSR/P 42   |
| 45 | 53 | 4   | 51 | 1   | 7  | 10DSR/P 45   |
| 50 | 58 | 4   | 56 | 1   | 7  | 10DSR/P 50   |
| 50 | 62 | 5,5 | 59 | 1,5 | 10 | 10DSR/P 50/1 |

| d   | D   | L   | C   | E   | H  | Reference   |
|-----|-----|-----|-----|-----|----|-------------|
| 54  | 62  | 4   | 60  | 1   | 7  | 10DSR/P 54  |
| 55  | 63  | 4   | 61  | 1   | 7  | 10DSR/P 55  |
| 56  | 64  | 4   | 62  | 1   | 7  | 10DSR/P 56  |
| 60  | 68  | 4   | 66  | 1   | 7  | 10DSR/P 60  |
| 63  | 71  | 4   | 69  | 1   | 7  | 10DSR/P 63  |
| 65  | 73  | 4   | 71  | 1   | 7  | 10DSR/P 65  |
| 70  | 78  | 4   | 76  | 1   | 7  | 10DSR/P 70  |
| 75  | 83  | 4   | 81  | 1   | 7  | 10DSR/P 75  |
| 80  | 88  | 4   | 86  | 1   | 7  | 10DSR/P 80  |
| 85  | 93  | 4   | 91  | 1   | 7  | 10DSR/P 85  |
| 90  | 98  | 4   | 96  | 1   | 7  | 10DSR/P 90  |
| 95  | 103 | 4   | 101 | 1   | 7  | 10DSR/P 95  |
| 100 | 108 | 4   | 106 | 1   | 7  | 10DSR/P 100 |
| 110 | 122 | 5,5 | 119 | 1,5 | 10 | 10DSR/P 110 |
| 120 | 132 | 5,5 | 129 | 1,5 | 10 | 10DSR/P 120 |
| 125 | 137 | 5,5 | 134 | 1,5 | 10 | 10DSR/P 125 |
| 130 | 142 | 5,5 | 139 | 1,5 | 10 | 10DSR/P 130 |
| 135 | 147 | 5,5 | 144 | 1,5 | 10 | 10DSR/P 135 |
| 140 | 152 | 5,5 | 149 | 1,5 | 10 | 10DSR/P 140 |
| 150 | 162 | 5,5 | 159 | 1,5 | 10 | 10DSR/P 150 |
| 160 | 172 | 5,5 | 169 | 1,5 | 10 | 10DSR/P 160 |
| 180 | 192 | 5,5 | 189 | 1,5 | 10 | 10DSR/P 180 |
| 200 | 212 | 5,5 | 209 | 1,5 | 10 | 10DSR/P 200 |



The function of **10WAH** wiper is to prevent introduction of contamination into the system, to protect the guiding parts and to extend the service life of the rod seal. The wiper lip produces an effective cleaning action to avoid damage to all internal components.

The special feature of this wiper is the external flap which covers the gland housing and prevents the **intrusion of particles** and moisture around the outside. An additional lip on the outside diameter increases this protection. The ribs on the inner surface give stability and prevent twisting of the wiper in the groove or sticking onto the rod.

This wiper is produced in polyurethane which ensures increased **wear resistance** and an extended service life due to good resistance against weathering.

**Operating conditions** [see page 8](#)

Temperature -30°C to 100°C  
Speed ≤ 0,8 m/s  
Fluids [see pages 22-45](#)

**Materials** [see pages 10-19](#)

Polyurethane PU10

**Assembly** [see pages 54-59](#)

The wipers may easily be mounted into the grooved housing

**Advantages**

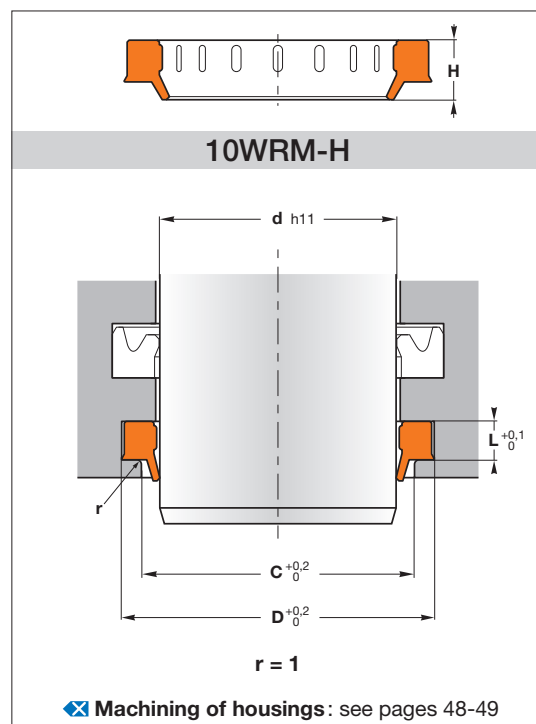
The 3 sealing steps for an absolute protection against moisture entering the groove  
Developed for heavy duty applications: mining industry, foundries...  
Particularly suitable for vertical cylinders pointing upwards  
Excellent abrasion resistance  
Extended service life  
Easy to assemble

**Please contact us for applications approaching maximum values.**

**More information**

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| d  | D     | L   | C    | E   | H    | Reference |
|----|-------|-----|------|-----|------|-----------|
| 35 | 45    | 6,3 | 42   | 1,5 | 10   | 10WAH 35  |
| 36 | 44    | 5   | 41,5 | 1,5 | 8    | 10WAH 36  |
| 40 | 48    | 5   | 45,5 | 1,5 | 8    | 10WAH 40  |
| 45 | 53    | 5   | 50,5 | 1,5 | 8    | 10WAH 45  |
| 50 | 58    | 5   | 55,5 | 1,5 | 8    | 10WAH 50  |
| 56 | 66    | 6,3 | 63   | 1,5 | 10   | 10WAH 56  |
| 60 | 70    | 6,3 | 67   | 1,5 | 10   | 10WAH 60  |
| 63 | 73    | 6,3 | 70   | 1,5 | 10   | 10WAH 63  |
| 70 | 82,6  | 8   | 78,4 | 2   | 12   | 10WAH 70  |
| 80 | 90    | 6,3 | 87   | 1,5 | 10   | 10WAH 80  |
| 90 | 102,2 | 7,1 | 96   | 2,8 | 12,4 | 10WAH 90  |



The function of **10WRM-H** wiper is to prevent introduction of contamination into the system, to protect the guiding parts and to extend the service life of the rod seal. The wiper lip produces an effective cleaning action to avoid damage to all internal components.

The ribs on the inner surface **give stability** and prevent twisting of the wiper in the groove or sticking onto the rod.

An external sealing lip on the static side contacts the housing in order to prevent **intrusion of impurities** via the outer diameter.

This wiper is used in heavy duty environments such as mud or ice.

The wiper is produced in polyester resin which ensures increased **wear resistance** and excellent properties in case of heavy applications.

#### Operating conditions

|             |                |
|-------------|----------------|
| Temperature | -30°C to 110°C |
| Speed       | ≤ 0,8 m/s      |
| Fluids      |                |

#### Materials

|           |     |
|-----------|-----|
| Polyester | TPE |
|-----------|-----|

#### Assembly

The wipers may easily be mounted into the grooved housing

#### Advantages

- Good protection of the housing against external intrusion
- Suitable for heavy duty environments
- Excellent abrasion resistance
- Extended service life
- Easy to assemble
- Good price-performance ratio

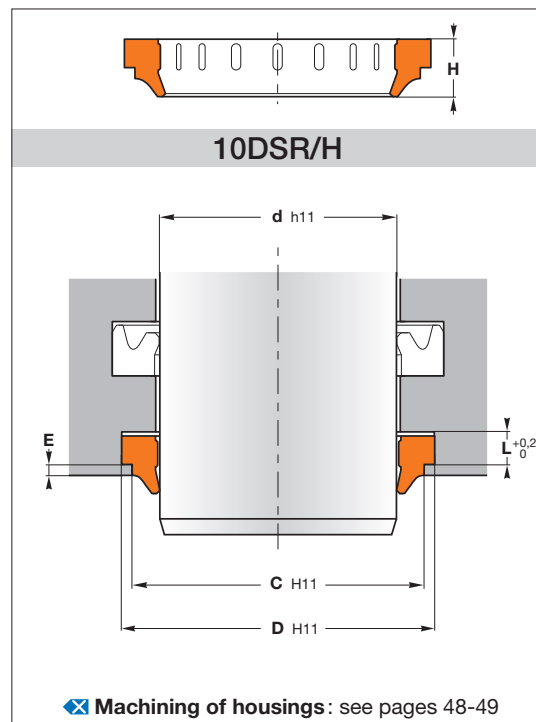
**Please contact us for applications approaching maximum values.**

#### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| d  | D                  | L                 | C                | H              | ISO 6195/A | Reference                                  | d   | D                     | L                    | C                     | H              | ISO 6195/A | Reference                                     |
|----|--------------------|-------------------|------------------|----------------|------------|--------------------------------------------|-----|-----------------------|----------------------|-----------------------|----------------|------------|-----------------------------------------------|
| 20 | 28<br>28,6         | 5<br>5,3          | 25,5<br>23       | 7<br>7         | •          | 10WRM-H 20<br>10WRM-H 20/1                 | 100 | 110,6<br>112,2<br>115 | 5,3<br>7,1<br>9,5    | 104<br>106<br>110     | 7<br>10<br>14  | •          | 10WRM-H 100/2<br>10WRM-H 100/1<br>10WRM-H 100 |
| 22 | 30<br>33,6         | 5<br>5,3          | 27,5<br>25       | 7<br>7         | •          | 10WRM-H 22<br>10WRM-H 22/1                 | 110 | 122,2<br>125          | 7,1<br>9,5           | 116<br>120            | 10<br>14       |            | 10WRM-H 110/1<br>10WRM-H 110                  |
| 25 | 33<br>33,6         | 5<br>5,3          | 30,5<br>28       | 7<br>7         | •          | 10WRM-H 25<br>10WRM-H 25/1                 | 115 | 127,2                 | 7,1                  | 121                   | 10             |            | 10WRM-H 115                                   |
| 28 | 36<br>36,6         | 5<br>5,3          | 33,5<br>31       | 7<br>7         | •          | 10WRM-H 28<br>10WRM-H 28/1                 | 120 | 132,2                 | 7,1                  | 126                   | 10             |            | 10WRM-H 120                                   |
| 30 | 38<br>38,6         | 5<br>5,3          | 35,5<br>33       | 7<br>7         |            | 10WRM-H 30<br>10WRM-H 30/1                 | 125 | 137,2<br>140<br>140   | 7,1<br>9,5<br>10,2   | 131<br>135<br>133     | 10<br>14<br>16 |            | 10WRM-H 125/1<br>10WRM-H 125<br>10WRM-H 125/2 |
| 32 | 40<br>40,6         | 5<br>5,3          | 37,5<br>35       | 7<br>7         | •          | 10WRM-H 32<br>10WRM-H 32/1                 | 130 | 145                   | 10,2                 | 137,6                 | 16             |            | 10WRM-H 130                                   |
| 35 | 43<br>43,6         | 5<br>5,3          | 40,5<br>38       | 7<br>7         |            | 10WRM-H 35<br>10WRM-H 35/1                 | 140 | 155                   | 9,5                  | 150                   | 14             |            | 10WRM-H 140/1                                 |
| 36 | 44<br>44,6         | 5<br>5,3          | 41,5<br>39       | 7<br>7         | •          | 10WRM-H 36<br>10WRM-H 36/1                 | 150 | 162,2<br>165          | 7,1<br>10,2          | 156<br>157,6          | 12<br>16       |            | 10WRM-H 150<br>10WRM-H 150/1                  |
| 38 | 46,6               | 5,3               | 41               | 7              |            | 10WRM-H 38/1                               | 160 | 175<br>175            | 9,5<br>10,2          | 170<br>167            | 14<br>16       |            | 10WRM-H 160<br>10WRM-H 160/1                  |
| 40 | 48<br>48,6         | 5<br>5,3          | 45,5<br>43       | 7<br>7         | •          | 10WRM-H 40<br>10WRM-H 40/1                 | 180 | 195<br>200            | 9,5<br>10,2          | 190<br>190            | 14<br>18       |            | 10WRM-H 180<br>10WRM-H 180/1                  |
| 45 | 53<br>53,6<br>55,6 | 5<br>5,3<br>5,3   | 50,5<br>48<br>48 | 7<br>7<br>7    | •          | 10WRM-H 45<br>10WRM-H 45/1<br>10WRM-H 45/2 | 200 | 215<br>220            | 9,5<br>10,2          | 210<br>210            | 14<br>18       |            | 10WRM-H 200<br>10WRM-H 200/1                  |
| 50 | 58<br>58,6<br>60,6 | 5<br>5,3<br>5,3   | 55,5<br>53<br>53 | 7<br>7<br>7    | •          | 10WRM-H 50<br>10WRM-H 50/1<br>10WRM-H 50/2 | 220 | 235<br>240<br>240     | 10,2<br>12,5<br>10,2 | 227,6<br>233,5<br>230 | 18<br>18<br>18 |            | 10WRM-H 220/2<br>10WRM-H 220<br>10WRM-H 220/1 |
| 55 | 63,6<br>65<br>65,6 | 5,3<br>6,3<br>5,3 | 58<br>61<br>61   | 7<br>7,5<br>7  |            | 10WRM-H 55/1<br>10WRM-H 55<br>10WRM-H 55/2 | 240 | 255<br>255,2<br>260   | 9,5<br>10,1<br>10,2  | 250<br>250<br>250     | 14<br>18<br>18 |            | 10WRM-H 240/2<br>10WRM-H 240<br>10WRM-H 240/1 |
| 56 | 64,6<br>66<br>66,6 | 5,3<br>6,3<br>5,3 | 59<br>63<br>59   | 7<br>7,5<br>7  | •          | 10WRM-H 56/2<br>10WRM-H 56<br>10WRM-H 56/1 | 250 | 270                   | 10,2                 | 260                   | 18             |            | 10WRM-H 250                                   |
| 60 | 70<br>70,6         | 6,3<br>5,3        | 67<br>64         | 7,5<br>7       |            | 10WRM-H 60<br>10WRM-H 60/2                 | 280 | 295<br>300            | 9,5<br>10,2          | 290<br>290            | 14<br>18       |            | 10WRM-H 280/1<br>10WRM-H 280                  |
| 63 | 73                 | 6,3               | 70               | 7,5            |            | 10WRM-H 63                                 | 290 | 310                   | 12,5                 | 303,5                 | 18             |            | 10WRM-H 290                                   |
| 70 | 80<br>80,6<br>82,2 | 6,3<br>5,3<br>7,1 | 77<br>73<br>76   | 7,5<br>7<br>10 | •          | 10WRM-H 70<br>10WRM-H 70/2<br>10WRM-H 70/1 | 300 | 320                   | 12,5                 | 313,5                 | 18             |            | 10WRM-H 300                                   |
| 75 | 87,2               | 7,1               | 81               | 10             |            | 10WRM-H 75/1                               | 320 | 340                   | 10,2                 | 330                   | 18             |            | 10WRM-H 320                                   |
| 80 | 88,6<br>90<br>92,2 | 5,3<br>6,3<br>7,1 | 83<br>87<br>86   | 7<br>7,5<br>10 | •          | 10WRM-H 80/2<br>10WRM-H 80<br>10WRM-H 80/1 | 330 | 346                   | 7,5                  | 340,7                 | 12             |            | 10WRM-H 330                                   |
| 85 | 93,6               | 5,3               | 88               | 7              |            | 10WRM-H 85/1                               | 350 | 370                   | 10,2                 | 360                   | 18             |            | 10WRM-H 350                                   |
| 90 | 100<br>102,2       | 6,3<br>7,1        | 97<br>96         | 7,5<br>10      | •          | 10WRM-H 90<br>10WRM-H 90/1                 | 360 | 380                   | 10,2                 | 370                   | 18             |            | 10WRM-H 360                                   |
|    |                    |                   |                  |                |            |                                            | 400 | 420                   | 10,2                 | 410                   | 18             |            | 10WRM-H 400                                   |
|    |                    |                   |                  |                |            |                                            | 420 | 440                   | 12,5                 | 430                   | 18             |            | 10WRM-H 420                                   |





The function of **10DSR-H** wiper is to prevent introduction of contamination into the system, to protect the guiding parts and to extend the service life of the rod seal. The wiper lip produces an effective cleaning action to avoid damage to all internal components.

The ribs on the inner surface **give stability** and prevent twisting of the wiper in the groove or sticking onto the rod.

The flush fitting with the outside diameter **reduces impurities** and moisture entering the groove.

This wiper can be used in heavy duty environments such as mud or ice.

The wiper is produced in polyester resin which ensures increased **wear resistance** and excellent properties in case of heavy applications.

**Operating conditions**[see page 8](#)

Temperature -30°C to 110°C  
Speed  $\leq 0,8$  m/s  
Fluids [see pages 22-45](#)

**Materials**[see pages 10-19](#)

Polyester TPE

**Assembly**[see pages 54-59](#)

The wipers may easily be mounted into the grooved housing

**Advantages**

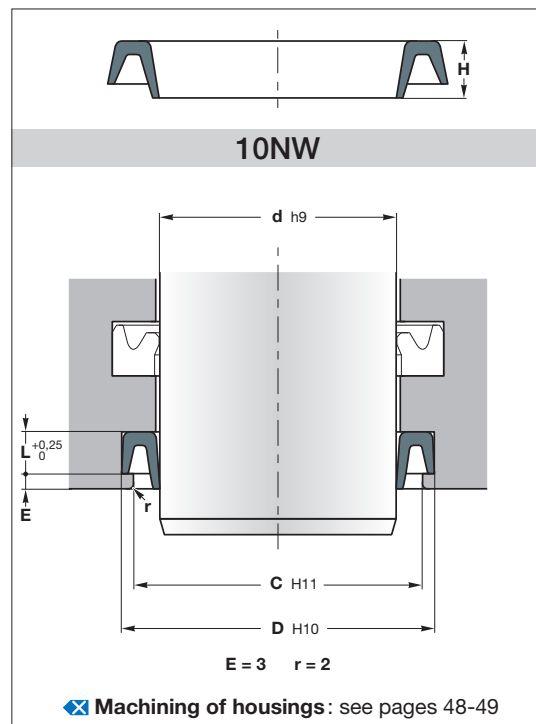
Flush fitting with the outer surface for a good housing protection  
Suitable for heavy duty environments  
Excellent abrasion resistance  
Extended service life  
Easy to assemble  
Small housing

**Please contact us for applications approaching maximum values.**

**More information**

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| d  | D  | L | C  | E | H | Reference  |
|----|----|---|----|---|---|------------|
| 25 | 33 | 4 | 31 | 1 | 7 | 10DSR/H 25 |
| 30 | 38 | 4 | 36 | 1 | 7 | 10DSR/H 30 |
| 35 | 43 | 4 | 41 | 1 | 7 | 10DSR/H 35 |
| 36 | 44 | 4 | 42 | 1 | 7 | 10DSR/H 36 |
| 40 | 48 | 4 | 46 | 1 | 7 | 10DSR/H 40 |
| 45 | 53 | 4 | 51 | 1 | 7 | 10DSR/H 45 |
| 50 | 58 | 4 | 56 | 1 | 7 | 10DSR/H 50 |
| 56 | 64 | 4 | 62 | 1 | 7 | 10DSR/H 56 |
| 60 | 68 | 4 | 66 | 1 | 7 | 10DSR/H 60 |
| 70 | 78 | 4 | 76 | 1 | 7 | 10DSR/H 70 |
| 80 | 88 | 4 | 86 | 1 | 7 | 10DSR/H 80 |
| 90 | 98 | 4 | 96 | 1 | 7 | 10DSR/H 90 |



The function of **10NW** wiper is to prevent introduction of contamination into the system. This wiper has been created for medium-heavy duty applications where very aggressive materials have to be eliminated from the rod, such as concrete, cement, ice...

The wiper lip produces a very effective cleaning action to **avoid damage** to the guiding rings and rod seals. This wiper is designed to snap-fit into its housing.

The wiper is produced in polyamide (PA) with molybdenum disulfide (MoS<sub>2</sub>) with a **high resistance to abrasion**.

**Operating conditions**

✕ see page 8

|             |                   |
|-------------|-------------------|
| Temperature | -40°C to 100°C    |
| Speed       | ≤ 0,8 m/s         |
| Fluids      | ✕ see pages 22-45 |

**Materials**

✕ see pages 10-19

|          |                       |
|----------|-----------------------|
| Polyamid | PA + MoS <sub>2</sub> |
|----------|-----------------------|

**Assembly**

✕ see pages 54-59

The wipers may easily be clipped into the grooved housing

**Advantages**

- Suitable for medium-heavy applications
- Excellent abrasion resistance
- Extended service life
- Good price-performance ratio
- Easy to assemble

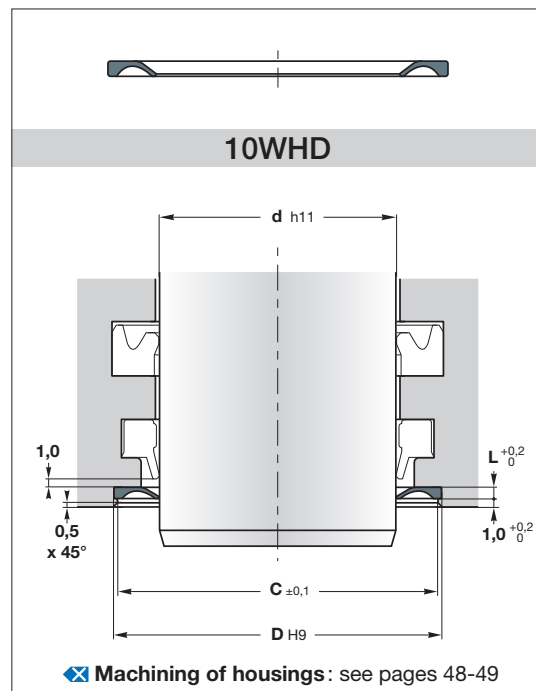
Please contact us for applications approaching maximum values.

**More information**

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| Metric |     |     |       |     |           |
|--------|-----|-----|-------|-----|-----------|
| d      | D   | L   | C     | H   | Reference |
| 16     | 26  | 4,5 | 24,5  | 6,5 | 10NW 16   |
| 20     | 33  | 6   | 31,5  | 8,5 | 10NW 20   |
| 25     | 38  | 6   | 36,5  | 8,5 | 10NW 25   |
| 28     | 41  | 6   | 39,5  | 8,5 | 10NW 28   |
| 30     | 43  | 6   | 41,5  | 8,5 | 10NW 30   |
| 32     | 45  | 6   | 43,5  | 8,5 | 10NW 32   |
| 36     | 49  | 6   | 47,5  | 8,5 | 10NW 36   |
| 40     | 53  | 6   | 51,5  | 8,5 | 10NW 40   |
| 45     | 58  | 6   | 56,5  | 8,5 | 10NW 45   |
| 50     | 63  | 6   | 61,5  | 8,5 | 10NW 50   |
| 55     | 68  | 6   | 66,5  | 8,5 | 10NW 55   |
| 56     | 69  | 6   | 67,5  | 8,5 | 10NW 56   |
| 60     | 73  | 6   | 71,5  | 8,5 | 10NW 60   |
| 63     | 76  | 6   | 74,5  | 8,5 | 10NW 63   |
| 65     | 78  | 6   | 76,5  | 8,5 | 10NW 65   |
| 70     | 83  | 6   | 81,5  | 8,5 | 10NW 70   |
| 80     | 93  | 6   | 91,5  | 8,5 | 10NW 80   |
| 90     | 103 | 6   | 101,5 | 8,5 | 10NW 90   |
| 100    | 113 | 6   | 111,5 | 8,5 | 10NW 100  |

| Inch  |       |      |       |     |           |
|-------|-------|------|-------|-----|-----------|
| d     | D     | L    | C     | H   | Reference |
| 12,7  | 22,22 | 4,4  | 20,6  | 8,5 | 10NW 0500 |
| 19,05 | 31,75 | 6    | 30,2  | 8,5 | 10NW 0750 |
| 22,22 | 34,92 | 6    | 33,3  | 8,5 | 10NW 0875 |
| 25,4  | 38,1  | 6    | 36,5  | 8,5 | 10NW 1000 |
| 28,57 | 41,27 | 6    | 39,7  | 8,5 | 10NW 1125 |
| 31,8  | 44,45 | 6    | 42,9  | 8,5 | 10NW 1250 |
| 34,93 | 47,63 | 5,84 | 46    | 8,5 | 10NW 1375 |
| 38,1  | 50,8  | 6    | 49,2  | 8,5 | 10NW 1500 |
| 41,28 | 53,98 | 6,02 | 52,4  | 8,5 | 10NW 1625 |
| 44,45 | 57,15 | 6    | 55,6  | 8,5 | 10NW 1750 |
| 50,8  | 63,5  | 6    | 61,9  | 8,5 | 10NW 2000 |
| 57,15 | 69,85 | 6,02 | 68,3  | 8,5 | 10NW 2250 |
| 63,5  | 76,2  | 6    | 74,6  | 8,5 | 10NW 2500 |
| 69,85 | 82,55 | 6    | 81    | 8,5 | 10NW 2750 |
| 76,2  | 88,9  | 6    | 87,3  | 8,5 | 10NW 3000 |
| 82,55 | 95,25 | 6,02 | 93,7  | 8,5 | 10NW 3250 |
| 88,9  | 101,6 | 6,02 | 100   | 8,5 | 10NW 3500 |
| 101,6 | 114,3 | 6,02 | 112,7 | 8,5 | 10NW 4000 |



The function of **10WHD** wiper is to scrape heavily adhering particles off the cylinder rod. It should always be used in combination with a second wiper in elastomer or PU.

This combination is very suitable for heavy duty applications in earthmoving and mining equipment.

The wiper is produced in polyamide (PA) or acetal resin (POM) which have a **high resistance to abrasion**.

#### Operating conditions see page 8

Temperature -40°C to 100°C

Speed ≤ 0,8 m/s

Fluids  see pages 22-45

#### Materials see pages 10-19

Polyamid POM or PA

#### Assembly see pages 54-59

The wipers may easily be clipped into the grooved housing

#### Advantages

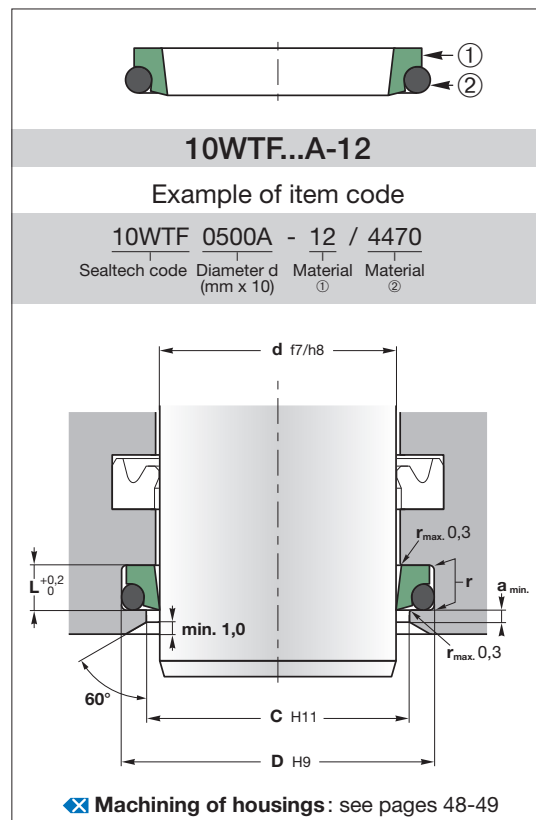
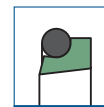
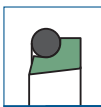
- Easy to assemble
- Good price-performance ratio
- Good abrasion resistance
- For heavy duty applications (excavators...)
- Very small housing

**Please contact us for applications approaching maximum values.**

#### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| d    | D     | L   | C     | Reference |
|------|-------|-----|-------|-----------|
| 44,5 | 56    | 2   | 55    | 10WHD 44  |
| 45   | 56    | 2,1 | 55    | 10WHD 45  |
| 56   | 67    | 2,1 | 66    | 10WHD 56  |
| 59,5 | 71    | 2   | 70    | 10WHD 59  |
| 63   | 74    | 2,1 | 73    | 10WHD 63  |
| 69,5 | 81    | 2   | 80    | 10WHD 69  |
| 70   | 82    | 2,1 | 81    | 10WHD 70  |
| 75   | 87    | 2,1 | 86    | 10WHD 75  |
| 78   | 89,5  | 2   | 88,5  | 10WHD 78  |
| 80   | 92    | 2,1 | 91    | 10WHD 80  |
| 87   | 98,5  | 2   | 97,5  | 10WHD 87  |
| 90   | 102   | 2,1 | 101   | 10WHD 90  |
| 97   | 108,5 | 2   | 107,5 | 10WHD 97  |
| 100  | 112   | 2,1 | 111   | 10WHD 100 |
| 104  | 115,5 | 2   | 114,9 | 10WHD 104 |
| 110  | 122   | 2,1 | 121   | 10WHD 110 |
| 118  | 129,5 | 2   | 128,5 | 10WHD 118 |
| 120  | 132   | 2,1 | 131   | 10WHD 120 |
| 124  | 136   | 2,1 | 135   | 10WHD 124 |
| 130  | 150   | 2,6 | 148,6 | 10WHD 130 |
| 140  | 160   | 2,6 | 158,6 | 10WHD 140 |
| 150  | 170   | 2,6 | 168,6 | 10WHD 150 |
| 160  | 180   | 2,6 | 178,6 | 10WHD 160 |
| 180  | 200   | 2,6 | 198,6 | 10WHD 180 |
| 200  | 220   | 2,6 | 219,6 | 10WHD 200 |



The function of **10WTF...A-12** wiper is to prevent introduction of contamination into the system.

This wiper is composed of a dynamic PTFE ring with a wiper lip which produces an **effective cleaning** action to avoid damage to all internal components.

PTFE material assures low friction and **high speed** performance and has also high compatibility with nearly all media due to his chemical resistance which exceeds that of all other thermoplastics and elastomers.

The elastomer O-ring on the static side works as an energising ring and pressurises the wiper lip against the rod. If necessary, **different O-ring materials** can be chosen to suit the application.

#### Operating conditions see page 8

|             |                                                                                                    |
|-------------|----------------------------------------------------------------------------------------------------|
| Temperature | -30°C to 100°C                                                                                     |
| Speed       | ≤ 15 m/s                                                                                           |
| Fluids      |  see pages 22-45 |

#### Materials see pages 10-19

|                           |             |
|---------------------------|-------------|
| Dynamic sealing element ① | PT12        |
| Energising element ②      | NBR 70 Sh A |

#### Assembly see pages 54-59

O-ring and PTFE-ring may easily be mounted into the grooved housing (split groove for  $d < 30$  mm)

#### Advantages

- High speed performance
- Low static and dynamic friction
- No stick-slip
- High chemical compatibility with the right O-ring
- Large temperature range -45°C up to 200°C with the right O-ring
- Extended service life
- Simple groove construction

**Please contact us for applications approaching maximum values.**

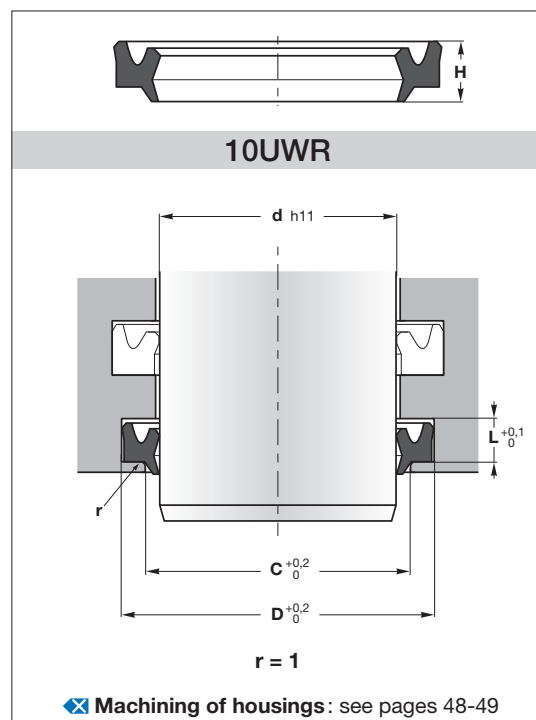
#### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

| d   | D     | L   | C     | r   | a <sub>min</sub> | O-ring<br>NBR 70 Sh A | Reference           |
|-----|-------|-----|-------|-----|------------------|-----------------------|---------------------|
| 6   | 10,8  | 3,7 | 7,5   | 0,4 | 2                | 7,65 x 1,78           | 10WTF 0060A-12/4470 |
| 8   | 12,8  | 3,7 | 9,5   | 0,4 | 2                | 9,25 x 1,78           | 10WTF 0080A-12/4470 |
| 12  | 18,8  | 5   | 13,5  | 0,7 | 2                | 13,94 x 2,62          | 10WTF 0120A-12/4470 |
| 14  | 20,8  | 5   | 15,5  | 0,7 | 2                | 15,54 x 2,62          | 10WTF 0140A-12/4470 |
| 15  | 21,8  | 5   | 16,5  | 0,7 | 2                | 17,62 x 2,62          | 10WTF 0150A-12/4470 |
| 16  | 22,8  | 5   | 17,5  | 0,7 | 2                | 18,72 x 2,62          | 10WTF 0160A-12/4470 |
| 18  | 24,8  | 5   | 19,5  | 0,7 | 2                | 20,29 x 2,62          | 10WTF 0180A-12/4470 |
| 20  | 26,8  | 5   | 21,5  | 0,7 | 2                | 21,89 x 2,62          | 10WTF 0200A-12/4470 |
| 22  | 28,8  | 5   | 23,5  | 0,7 | 2                | 23,47 x 2,62          | 10WTF 0220A-12/4470 |
| 25  | 31,8  | 5   | 26,5  | 0,7 | 2                | 26,64 x 2,62          | 10WTF 0250A-12/4470 |
| 28  | 34,8  | 5   | 29,5  | 0,7 | 2                | 29,82 x 2,62          | 10WTF 0280A-12/4470 |
| 30  | 36,8  | 5   | 31,5  | 0,7 | 2                | 31,42 x 2,62          | 10WTF 0300A-12/4470 |
| 32  | 38,8  | 5   | 33,5  | 0,7 | 2                | 34,59 x 2,62          | 10WTF 0320A-12/4470 |
| 35  | 41,8  | 5   | 36,5  | 0,7 | 2                | 36,17 x 2,62          | 10WTF 0350A-12/4470 |
| 36  | 42,8  | 5   | 37,5  | 0,7 | 2                | 37,77 x 2,62          | 10WTF 0360A-12/4470 |
| 40  | 46,8  | 5   | 41,5  | 0,7 | 2                | 42,52 x 2,62          | 10WTF 0400A-12/4470 |
| 42  | 48,8  | 5   | 43,5  | 0,7 | 2                | 44,12 x 2,62          | 10WTF 0420A-12/4470 |
| 45  | 51,8  | 5   | 46,5  | 0,7 | 2                | 47,29 x 2,62          | 10WTF 0450A-12/4470 |
| 50  | 56,8  | 5   | 51,5  | 0,7 | 2                | 52,07 x 2,62          | 10WTF 0500A-12/4470 |
| 55  | 61,8  | 5   | 56,5  | 0,7 | 2                | 56,82 x 2,62          | 10WTF 0550A-12/4470 |
| 56  | 62,8  | 5   | 57,5  | 0,7 | 2                | 59,99 x 2,62          | 10WTF 0560A-12/4470 |
| 60  | 66,8  | 5   | 61,5  | 0,7 | 2                | 61,6 x 2,62           | 10WTF 0600A-12/4470 |
| 63  | 69,8  | 5   | 64,5  | 0,7 | 2                | 64,77 x 2,62          | 10WTF 0630A-12/4470 |
| 65  | 73,8  | 6   | 66,5  | 1   | 3                | 66,27 x 3,53          | 10WTF 0650A-12/4470 |
| 70  | 78,8  | 6   | 71,5  | 1   | 3                | 72,62 x 3,53          | 10WTF 0700A-12/4470 |
| 75  | 83,8  | 6   | 76,5  | 1   | 3                | 75,79 x 3,53          | 10WTF 0750A-12/4470 |
| 80  | 88,8  | 6   | 81,5  | 1   | 3                | 82,14 x 3,53          | 10WTF 0800A-12/4470 |
| 85  | 93,8  | 6   | 86,5  | 1   | 3                | 88,49 x 3,53          | 10WTF 0850A-12/4470 |
| 90  | 98,8  | 6   | 91,5  | 1   | 3                | 91,67 x 3,53          | 10WTF 0900A-12/4470 |
| 95  | 103,8 | 6   | 96,5  | 1   | 3                | 98,02 x 3,53          | 10WTF 0950A-12/4470 |
| 100 | 108,8 | 6   | 101,5 | 1   | 3                | 104,37 x 3,53         | 10WTF 1000A-12/4470 |
| 105 | 113,8 | 6   | 106,5 | 1   | 3                | 107,54 x 3,53         | 10WTF 1050A-12/4470 |
| 110 | 118,8 | 6   | 111,5 | 1   | 3                | 113,89 x 3,53         | 10WTF 1100A-12/4470 |
| 120 | 128,8 | 6   | 121,5 | 1   | 3                | 123,42 x 3,53         | 10WTF 1200A-12/4470 |
| 125 | 133,8 | 6   | 126,5 | 1   | 3                | 129,77 x 3,53         | 10WTF 1250A-12/4470 |
| 130 | 138,8 | 6   | 131,5 | 1   | 3                | 132,94 x 3,53         | 10WTF 1300A-12/4470 |
| 140 | 148,8 | 6   | 141,5 | 1   | 3                | 142,47 x 3,53         | 10WTF 1400A-12/4470 |
| 150 | 158,8 | 6   | 151,5 | 1   | 3                | 151,99 x 3,53         | 10WTF 1500A-12/4470 |
| 160 | 168,8 | 6   | 161,5 | 1   | 3                | 164,69 x 3,53         | 10WTF 1600A-12/4470 |
| 170 | 178,8 | 6   | 171,5 | 1   | 3                | 177,39 x 3,53         | 10WTF 1700A-12/4470 |
| 180 | 188,8 | 6   | 181,5 | 1   | 3                | 183,74 x 3,53         | 10WTF 1800A-12/4470 |
| 190 | 198,8 | 6   | 191,5 | 1   | 3                | 196,44 x 3,53         | 10WTF 1900A-12/4470 |
| 200 | 208,8 | 6   | 201,5 | 1   | 3                | 202,79 x 3,53         | 10WTF 2000A-12/4470 |

10WTF...A-12 wipers with diameters between 20 and 1500 mm can be manufactured within short delivery time.

For prices and availability: [www.sealtech-business.be](http://www.sealtech-business.be)



**10UWR** wiper in nitrile elastomer has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side retains the residual oil film from the extending piston rod.

On the static surface, the sealing is achieved by contact of the flexible outside lip with the housing. The dynamic lip is shorter and stronger to concentrate load against the dynamic surface.

The scraper is preferably used in conjunction with seals with a hydrodynamic **back-pumping function** or a drainage channel must be opened in this area.

#### Operating conditions see page 8

|             |                                                                                                    |
|-------------|----------------------------------------------------------------------------------------------------|
| Temperature | -30°C to 100°C                                                                                     |
| Speed       | ≤ 0,8 m/s                                                                                          |
| Fluids      |  see pages 22-45 |

#### Materials see pages 10-19

|           |             |
|-----------|-------------|
| Elastomer | NBR 90 Sh A |
|-----------|-------------|

#### Assembly see pages 54-59

The wipers may easily be mounted into the grooved housing

#### Advantages

- Reduced oil film leakage on the rod
- Easy to assemble
- Small housing
- Simple groove construction

**Please contact us for applications approaching maximum values.**

#### More information

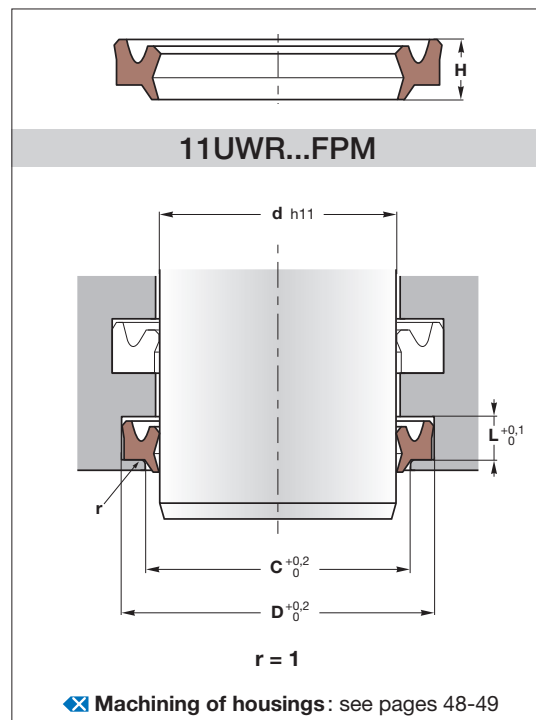
On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| d     | D     | L    | C    | H   | Reference    |
|-------|-------|------|------|-----|--------------|
| 5     | 11,3  | 4,3  | 8,5  | 6   | 10UWR 019043 |
| 12    | 18,6  | 3,8  | 15   | 5,5 | 10UWR 047070 |
| 12    | 20,6  | 5,3  | 15   | 7   | 10UWR 047080 |
| 15    | 21    | 5    | 18   | 7   | 10UWR 059082 |
| 16    | 22,6  | 3,8  | 19   | 5,5 | 10UWR 062087 |
| 18    | 24,6  | 3,8  | 21   | 5,5 | 10UWR 070094 |
| 20    | 28,6  | 5,3  | 23   | 7   | 10UWR 078110 |
| 22    | 30,6  | 5,3  | 25   | 7   | 10UWR 086118 |
| 25    | 33,6  | 5,3  | 28   | 7   | 10UWR 098129 |
| 28    | 36,6  | 5,3  | 31   | 7   | 10UWR 110141 |
| 30    | 38,6  | 5,3  | 33   | 7   | 10UWR 118149 |
| 32    | 40,6  | 5,3  | 35   | 7   | 10UWR 125157 |
| 35    | 43,6  | 5,3  | 38   | 7   | 10UWR 137169 |
| 36    | 44,6  | 5,3  | 39   | 7   | 10UWR 141173 |
| 40    | 48,6  | 5,3  | 43   | 7   | 10UWR 157188 |
| 42    | 50    | 5,3  | 45   | 7   | 10UWR 165196 |
| 45    | 53,6  | 5,3  | 48   | 7   | 10UWR 177208 |
| 50    | 58,6  | 5,3  | 53   | 7   | 10UWR 196228 |
| 55    | 63,6  | 5,3  | 58   | 7   | 10UWR 216248 |
| 56    | 64,6  | 5,3  | 59   | 7   | 10UWR 220251 |
| 60    | 68,6  | 5,3  | 63   | 7   | 10UWR 236267 |
| 60,32 | 73,02 | 7,15 | 63,8 | 12  | 10UWR 237287 |
| 63    | 71,6  | 5,3  | 66   | 7   | 10UWR 248279 |
| 65    | 73,6  | 5,3  | 68   | 7   | 10UWR 255287 |
| 66    | 74,6  | 5,3  | 69   | 7   | 10UWR 260292 |
| 70    | 78,6  | 5,3  | 73   | 7   | 10UWR 275307 |
| 76,5  | 88,7  | 7,1  | 83,5 | 12  | 10UWR 301348 |
| 78    | 92,2  | 7,1  | 85   | 12  | 10UWR 307362 |
| 80    | 92,2  | 7,1  | 86   | 12  | 10UWR 314362 |
| 90    | 102,2 | 7,1  | 96   | 12  | 10UWR 354401 |





## Double acting FPM wiper



The material used for this wiper is a fluorocarbon elastomer, especially suited for processes at higher temperatures. While also having **better resistance** to a wide range of more aggressive fuels and chemicals, its mechanical properties are not that good. (f.ex. compression set)

### Operating conditions

Temperature -10°C to 180°C  
Speed  $\leq 0,8$  m/s  
Fluids  **see pages 22-45**

## Materials

|           |             |
|-----------|-------------|
| Elastomer | FPM 90 Sh A |
|-----------|-------------|

## Assembly

The wipers may easily be mounted into the grooved housing

### Advantages

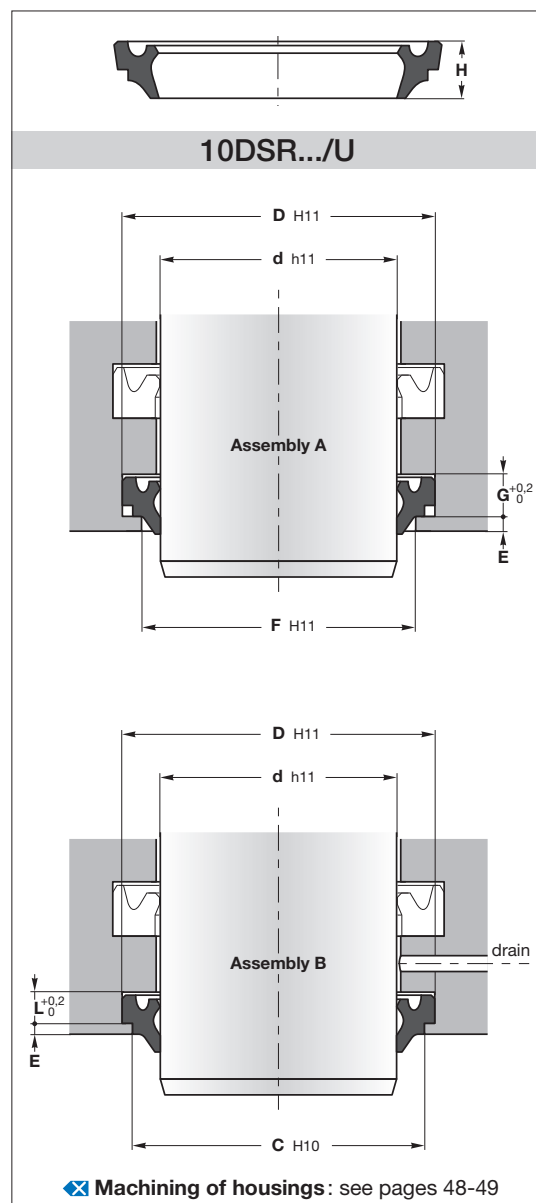
- Reduced oil film leakage on the rod
- Easy to assemble
- Simple groove construction
- Up to 180°C
- Resistant to aggressive fuels and chemicals

**Please contact us for applications approaching maximum values.**

### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| FPM seals |       |     |      |     |            |                  |
|-----------|-------|-----|------|-----|------------|------------------|
| d         | D     | L   | C    | H   | ISO 6195/C | Reference        |
| 12        | 18    | 4   | 14,5 | 5,5 | •          | 11UWR 12/ISO FPM |
| 14        | 20    | 4   | 16,5 | 5,5 | •          | 11UWR 14/ISO FPM |
| 22        | 28    | 4   | 24,5 | 5,5 | •          | 11UWR 22/ISO FPM |
| 28        | 36    | 5   | 31   | 7   | •          | 11UWR 28/ISO FPM |
| 36        | 44    | 5   | 39   | 7   | •          | 11UWR 36/ISO FPM |
| 40        | 48    | 5   | 43   | 7   |            | 11UWR 40/ISO FPM |
| 45        | 53    | 5   | 48   | 7   | •          | 11UWR 45/ISO FPM |
| 50        | 58    | 5   | 53   | 7   |            | 11UWR 50/ISO FPM |
| 56        | 66    | 6   | 59   | 7,5 | •          | 11UWR 56/ISO FPM |
| 63        | 73    | 6   | 66   | 7,5 | •          | 11UWR 63/ISO FPM |
| 70        | 80    | 6   | 73   | 7,5 | •          | 11UWR 70/ISO FPM |
| 80        | 90    | 6   | 83   | 7,5 | •          | 11UWR 80/ISO FPM |
| 90        | 100   | 6   | 93   | 7,5 | •          | 11UWR 90/ISO FPM |
| 100       | 112,2 | 7,1 | 106  | 12  |            | 11UWR 393440 FPM |



**10DSR.../U** wiper in nitrile elastomer has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side retains the residual oil film from the extending piston rod.

On the static surface, the sealing is achieved by contact of the flexible outside lip with the housing. The dynamic lip is shorter and stronger to concentrate load against the dynamic surface.

The scraper is preferably used in conjunction with seals with a hydrodynamic **back-pumping function**.

For assembly B (see picture) a drainage channel must be opened in this area.

#### Operating conditions see page 8

|             |                                                                                                    |
|-------------|----------------------------------------------------------------------------------------------------|
| Temperature | -30°C to 100°C                                                                                     |
| Speed       | ≤ 0,8 m/s                                                                                          |
| Fluids      |  see pages 22-45 |

#### Materials see pages 10-19

|           |             |
|-----------|-------------|
| Elastomer | NBR 90 Sh A |
|-----------|-------------|

#### Assembly see pages 54-59

The wipers may easily be mounted into the grooved housing

#### Advantages

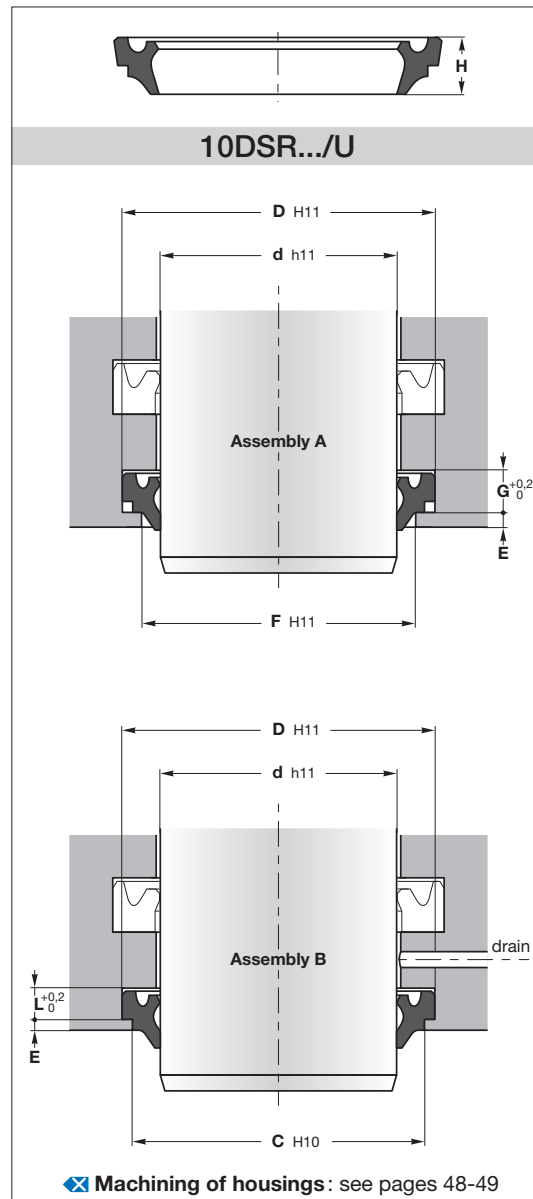
- Good protection of the housing against external intrusion
- Reduced oil film leakage
- Easy to assemble
- Small housing
- Simple groove construction

**Please contact us for applications approaching maximum values.**

#### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| d   | D   | L   | C   | F     | G   | E | H  | Reference   |
|-----|-----|-----|-----|-------|-----|---|----|-------------|
| 10  | 18  | 4   | 16  | 13,5  | 6   | 2 | 8  | 10DSR 10/U  |
| 12  | 20  | 4   | 18  | 15,5  | 6   | 2 | 8  | 10DSR 12/U  |
| 14  | 22  | 4   | 20  | 17,5  | 6   | 2 | 8  | 10DSR 14/U  |
| 15  | 23  | 4   | 21  | 18,5  | 6   | 2 | 8  | 10DSR 15/U  |
| 16  | 24  | 4   | 22  | 19,5  | 6   | 2 | 8  | 10DSR 16/U  |
| 18  | 26  | 4   | 24  | 21,5  | 6   | 2 | 8  | 10DSR 18/U  |
| 20  | 28  | 4   | 26  | 23,5  | 6   | 2 | 8  | 10DSR 20/U  |
| 22  | 30  | 4   | 28  | 25,5  | 6   | 2 | 8  | 10DSR 22/U  |
| 24  | 32  | 4   | 30  | 27,5  | 6   | 2 | 8  | 10DSR 24/U  |
| 25  | 33  | 4   | 31  | 28,5  | 6   | 2 | 8  | 10DSR 25/U  |
| 28  | 36  | 4   | 34  | 31,5  | 6   | 2 | 8  | 10DSR 28/U  |
| 30  | 38  | 4   | 36  | 33,5  | 6   | 2 | 8  | 10DSR 30/U  |
| 32  | 40  | 4   | 38  | 35,5  | 6   | 2 | 8  | 10DSR 32/U  |
| 35  | 43  | 4   | 41  | 38,5  | 6   | 2 | 8  | 10DSR 35/U  |
| 36  | 44  | 4   | 42  | 39,5  | 6   | 2 | 8  | 10DSR 36/U  |
| 37  | 45  | 4   | 43  | 40,5  | 6   | 2 | 8  | 10DSR 37/U  |
| 38  | 46  | 4   | 44  | 41,5  | 6   | 2 | 8  | 10DSR 38/U  |
| 40  | 48  | 4   | 46  | 43,5  | 6   | 2 | 8  | 10DSR 40/U  |
| 42  | 50  | 4   | 48  | 45,5  | 6   | 2 | 8  | 10DSR 42/U  |
| 43  | 51  | 4   | 49  | 46,5  | 6   | 2 | 8  | 10DSR 43/U  |
| 45  | 53  | 4   | 51  | 48,5  | 6   | 2 | 8  | 10DSR 45/U  |
| 46  | 54  | 4   | 52  | 49,5  | 6   | 2 | 8  | 10DSR 46/U  |
| 48  | 56  | 4   | 54  | 51,5  | 6   | 2 | 8  | 10DSR 48/U  |
| 50  | 58  | 4   | 56  | 53,5  | 6   | 2 | 8  | 10DSR 50/U  |
| 52  | 60  | 4   | 58  | 55,5  | 6   | 2 | 8  | 10DSR 52/U  |
| 55  | 63  | 4   | 61  | 58,5  | 6   | 2 | 8  | 10DSR 55/U  |
| 56  | 64  | 4   | 62  | 59,5  | 6   | 2 | 8  | 10DSR 56/U  |
| 58  | 66  | 4   | 64  | 61,5  | 6   | 2 | 8  | 10DSR 58/U  |
| 60  | 68  | 4   | 66  | 63,5  | 6   | 2 | 8  | 10DSR 60/U  |
| 63  | 71  | 4   | 69  | 66,5  | 6   | 2 | 8  | 10DSR 63/U  |
| 65  | 73  | 4   | 71  | 68,5  | 6   | 2 | 8  | 10DSR 65/U  |
| 70  | 78  | 4   | 76  | 73,5  | 6   | 2 | 8  | 10DSR 70/U  |
| 75  | 83  | 4   | 81  | 78,5  | 6   | 2 | 8  | 10DSR 75/U  |
| 77  | 85  | 4   | 83  | 80,5  | 6   | 2 | 8  | 10DSR 77/U  |
| 80  | 88  | 4   | 86  | 83,5  | 6   | 2 | 8  | 10DSR 80/U  |
| 85  | 93  | 4   | 91  | 88,5  | 6   | 2 | 8  | 10DSR 85/U  |
| 90  | 98  | 4   | 96  | 93,5  | 6   | 2 | 8  | 10DSR 90/U  |
| 92  | 100 | 4   | 98  | 95,5  | 6   | 2 | 8  | 10DSR 92/U  |
| 95  | 103 | 4   | 101 | 98,5  | 6   | 2 | 8  | 10DSR 95/U  |
| 100 | 108 | 4   | 106 | 103,5 | 6   | 2 | 8  | 10DSR 100/U |
| 105 | 117 | 5,5 | 114 | 110   | 8,2 | 3 | 11 | 10DSR 105/U |
| 110 | 122 | 5,5 | 119 | 115   | 8,2 | 3 | 11 | 10DSR 110/U |



**10DSR.../U** wiper in nitrile elastomer has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side retains the residual oil film from the extending piston rod.

On the static surface, the sealing is achieved by contact of the flexible outside lip with the housing. The dynamic lip is shorter and stronger to concentrate load against the dynamic surface.

The scraper is preferably used in conjunction with seals with a hydrodynamic **back-pumping function**.

For assembly B (see picture) a drainage channel must be opened in this area.

#### Operating conditions see page 8

|             |                                                                                                    |
|-------------|----------------------------------------------------------------------------------------------------|
| Temperature | -30°C to 100°C                                                                                     |
| Speed       | ≤ 0,8 m/s                                                                                          |
| Fluids      |  see pages 22-45 |

#### Materials see pages 10-19

|           |             |
|-----------|-------------|
| Elastomer | NBR 90 Sh A |
|-----------|-------------|

#### Assembly see pages 54-59

The wipers may easily be mounted into the grooved housing

#### Advantages

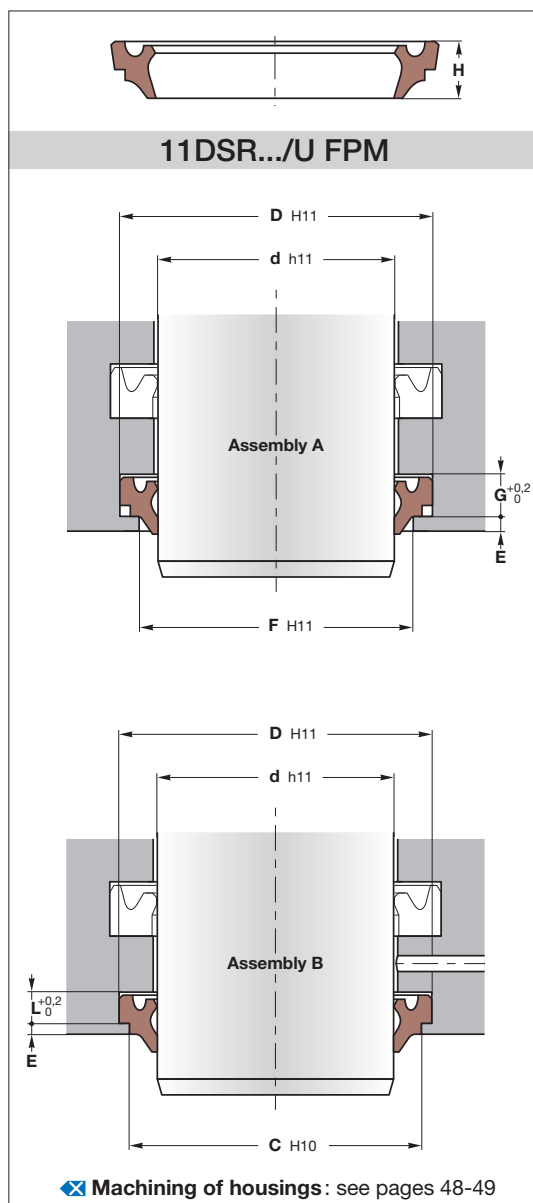
- Good protection of the housing against external intrusion
- Reduced oil film leakage
- Easy to assemble
- Small housing
- Simple groove construction

**Please contact us for applications approaching maximum values.**

#### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| d   | D   | L   | C   | F     | G   | E | H  | Reference     |
|-----|-----|-----|-----|-------|-----|---|----|---------------|
| 115 | 127 | 5,5 | 124 | 120   | 8,2 | 3 | 11 | 10DSR 115/U   |
| 120 | 128 | 4   | 126 | 123,5 | 6   | 2 | 8  | 10DSR 120/1/U |
| 120 | 132 | 5,5 | 129 | 125   | 8,2 | 3 | 11 | 10DSR 120/U   |
| 125 | 137 | 5,5 | 134 | 130   | 8,2 | 3 | 11 | 10DSR 125/U   |
| 130 | 142 | 5,5 | 139 | 135   | 8,2 | 3 | 11 | 10DSR 130/U   |
| 135 | 147 | 5,5 | 144 | 140   | 8,2 | 3 | 11 | 10DSR 135/U   |
| 140 | 152 | 5,5 | 149 | 145   | 8,2 | 3 | 11 | 10DSR 140/U   |
| 145 | 157 | 5,5 | 154 | 150   | 8,2 | 3 | 11 | 10DSR 145/U   |
| 150 | 162 | 5,5 | 159 | 155   | 8,2 | 3 | 11 | 10DSR 150/U   |
| 155 | 167 | 5,5 | 164 | 160   | 8,2 | 3 | 11 | 10DSR 155/U   |
| 160 | 172 | 5,5 | 169 | 165   | 8,2 | 3 | 11 | 10DSR 160/U   |
| 170 | 182 | 5,5 | 179 | 175   | 8,2 | 3 | 11 | 10DSR 170/U   |
| 180 | 192 | 5,5 | 189 | 185   | 8,2 | 3 | 11 | 10DSR 180/U   |
| 190 | 202 | 5,5 | 199 | 195   | 8,2 | 3 | 11 | 10DSR 190/U   |
| 200 | 212 | 5,5 | 209 | 205   | 8,2 | 3 | 11 | 10DSR 200/U   |
| 210 | 225 | 6,5 | 221 | 217   | 9,5 | 3 | 13 | 10DSR 210/U   |
| 220 | 235 | 6,5 | 231 | 227   | 9,5 | 3 | 13 | 10DSR 220/U   |
| 230 | 245 | 6,5 | 241 | 237   | 9,5 | 3 | 13 | 10DSR 230/U   |
| 240 | 255 | 6,5 | 251 | 247   | 9,5 | 3 | 13 | 10DSR 240/U   |
| 250 | 265 | 6,5 | 261 | 257   | 9,5 | 3 | 13 | 10DSR 250/U   |
| 260 | 275 | 6,5 | 271 | 267   | 9,5 | 3 | 13 | 10DSR 260/U   |
| 280 | 295 | 6,5 | 291 | 287   | 9,5 | 3 | 13 | 10DSR 280/U   |
| 290 | 305 | 6,5 | 301 | 297   | 9,5 | 3 | 13 | 10DSR 290/U   |
| 300 | 315 | 6,5 | 311 | 307   | 9,5 | 3 | 13 | 10DSR 300/U   |
| 310 | 325 | 6,5 | 321 | 317   | 9,5 | 3 | 13 | 10DSR 310/U   |
| 320 | 335 | 6,5 | 331 | 327   | 9,5 | 3 | 13 | 10DSR 320/U   |
| 340 | 355 | 6,5 | 351 | 347   | 9,5 | 3 | 13 | 10DSR 340/U   |
| 350 | 365 | 6,5 | 361 | 357   | 9,5 | 3 | 13 | 10DSR 350/U   |
| 360 | 375 | 6,5 | 371 | 367   | 9,5 | 3 | 13 | 10DSR 360/U   |
| 380 | 395 | 6,5 | 391 | 387   | 9,5 | 3 | 13 | 10DSR 380/U   |
| 400 | 415 | 6,5 | 411 | 407   | 9,5 | 3 | 13 | 10DSR 400/U   |
| 500 | 515 | 6,5 | 511 | 507   | 9,5 | 3 | 13 | 10DSR 500/U   |



**11DSR.../U FPM** wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side retains the residual oil film from the extending piston rod.

On the static surface, the sealing is achieved by contact of the flexible outside lip with the housing. The dynamic lip is shorter and stronger to concentrate load against the dynamic surface.

The scraper is preferably used in conjunction with seals with a hydrodynamic **back-pumping function**.

For assembly B (see picture) a drainage channel must be opened in this area.

The material used for this wiper is a fluorocarbon elastomer, especially suited for processes at higher temperatures. While also having **better resistance** to a wide range of more aggressive fuels and chemicals, its mechanical properties are not that good. (f.ex. compression set)

#### Operating conditions see page 8

|             |                                                                                                    |
|-------------|----------------------------------------------------------------------------------------------------|
| Temperature | -10°C to 180°C                                                                                     |
| Speed       | ≤ 0,8 m/s                                                                                          |
| Fluids      |  see pages 22-45 |

#### Materials see pages 10-19

|           |             |
|-----------|-------------|
| Elastomer | FPM 90 Sh A |
|-----------|-------------|

#### Assembly see pages 54-59

The wipers may easily be mounted into the grooved housing

#### Advantages

- Good protection of the housing against external intrusion
- Reduced oil film leakage
- Easy to assemble
- Small housing
- Simple groove construction
- Up to 180°C
- Resistant to aggressive fuels and chemicals

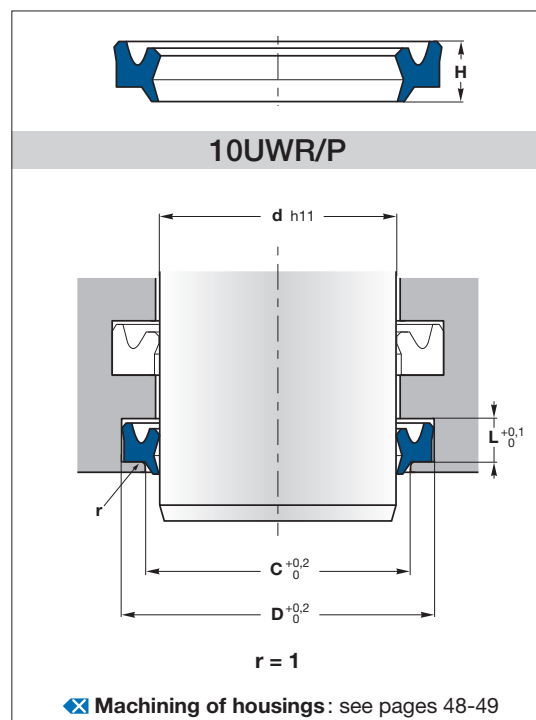
**Please contact us for applications approaching maximum values.**

#### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

#### FPM seals

| d   | D   | L   | C   | F     | G   | E | H  | Reference       |
|-----|-----|-----|-----|-------|-----|---|----|-----------------|
| 20  | 28  | 4   | 26  | 23,5  | 6   | 2 | 8  | 11DSR 20/U FPM  |
| 22  | 30  | 4   | 28  | 25,5  | 6   | 2 | 8  | 11DSR 22/U FPM  |
| 25  | 33  | 4   | 31  | 28,5  | 6   | 2 | 8  | 11DSR 25/U FPM  |
| 28  | 36  | 4   | 34  | 31,5  | 6   | 2 | 8  | 11DSR 28/U FPM  |
| 30  | 38  | 4   | 36  | 33,5  | 6   | 2 | 8  | 11DSR 30/U FPM  |
| 36  | 44  | 4   | 42  | 39,5  | 6   | 2 | 8  | 11DSR 36/U FPM  |
| 40  | 48  | 4   | 46  | 43,5  | 6   | 2 | 8  | 11DSR 40/U FPM  |
| 45  | 53  | 4   | 51  | 48,5  | 6   | 2 | 8  | 11DSR 45/U FPM  |
| 50  | 58  | 4   | 56  | 53,5  | 6   | 2 | 8  | 11DSR 50/U FPM  |
| 56  | 64  | 4   | 62  | 59,5  | 6   | 2 | 8  | 11DSR 56/U FPM  |
| 60  | 68  | 4   | 66  | 63,5  | 6   | 2 | 8  | 11DSR 60/U FPM  |
| 70  | 78  | 4   | 76  | 73,5  | 6   | 2 | 8  | 11DSR 70/U FPM  |
| 80  | 88  | 4   | 86  | 83,5  | 6   | 2 | 8  | 11DSR 80/U FPM  |
| 90  | 98  | 4   | 96  | 93,5  | 6   | 2 | 8  | 11DSR 90/U FPM  |
| 100 | 108 | 4   | 106 | 103,5 | 6   | 2 | 8  | 11DSR 100/U FPM |
| 110 | 122 | 5,5 | 119 | 115   | 8,2 | 3 | 11 | 11DSR 110/U FPM |
| 120 | 132 | 5,5 | 129 | 125   | 8,2 | 3 | 11 | 11DSR 120/U FPM |



**10UWR/P** wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side retains the residual oil film from the extending piston rod.

On the static surface, the sealing is achieved by contact of the flexible outside lip with the housing. The dynamic lip is shorter and stronger to concentrate load against the dynamic surface.

The scraper is preferably used in conjunction with seals with a hydrodynamic **back-pumping function** or a drainage channel must be opened in this area.

This wiper is produced in polyurethane which ensures increased **wear resistance** and an extended service life due to good resistance against weathering.

#### Operating conditions

✕ see page 8

|             |                   |
|-------------|-------------------|
| Temperature | -30°C to 100°C    |
| Speed       | ≤ 0,8 m/s         |
| Fluids      | ✕ see pages 22-45 |

#### Materials

✕ see pages 10-19

|              |      |
|--------------|------|
| Polyurethane | PU10 |
|--------------|------|

#### Assembly

✕ see pages 54-59

The wipers may easily be mounted into the grooved housing

#### Advantages

- Reduced oil film leakage
- Easy to assemble
- Simple groove construction
- Extended service life
- Excellent abrasion resistance

Please contact us for applications approaching maximum values.

#### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

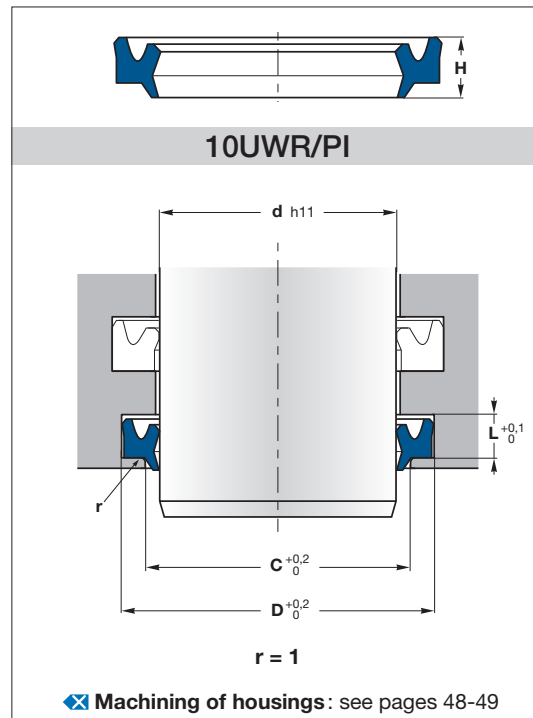
| d  | D                | L             | C                | H               | ISO 6195/C | Reference                                  |
|----|------------------|---------------|------------------|-----------------|------------|--------------------------------------------|
| 4  | 9                | 3,5           | 6,5              | 4,5             |            | 10UWR/P 4/1                                |
| 5  | 10               | 3,5           | 7,5              | 4,5             |            | 10UWR/P 5/1                                |
| 6  | 11               | 3,5           | 8,5              | 4,5             |            | 10UWR/P 6/1                                |
| 8  | 13               | 3,5           | 10,5             | 4,5             |            | 10UWR/P 8/1                                |
| 10 | 16               | 4             | 12,5             | 5               |            | 10UWR/P 10/1                               |
| 12 | 18<br>18,6       | 4<br>3,8      | 14,5<br>15       | 5<br>5          | •          | 10UWR/P 12/1<br>10UWR/P 12                 |
| 14 | 20<br>20,6       | 4<br>3,8      | 16,5<br>17       | 5<br>5          | •          | 10UWR/P 14/1<br>10UWR/P 14                 |
| 16 | 22<br>24         | 4<br>5        | 18,5<br>20,3     | 5<br>6          |            | 10UWR/P 16/1<br>10UWR/P 16/2               |
| 17 | 23,6             | 3,8           | 20               | 5               |            | 10UWR/P 17                                 |
| 18 | 24<br>24,6<br>26 | 4<br>3,8<br>5 | 20,5<br>21<br>21 | 5<br>5<br>6     | •          | 10UWR/P 18/1<br>10UWR/P 18<br>10UWR/P 18/2 |
| 20 | 26<br>28<br>28,6 | 4<br>5<br>5,3 | 22,5<br>23<br>23 | 5<br>6<br>6,5   |            | 10UWR/P 20/1<br>10UWR/P 20/2<br>10UWR/P 20 |
| 22 | 28<br>30,6       | 4<br>5,3      | 24,5<br>25       | 5<br>6,5        | •          | 10UWR/P 22/1<br>10UWR/P 22                 |
| 24 | 32,6             | 5,3           | 27               | 6,5             |            | 10UWR/P 24                                 |
| 25 | 31<br>33<br>33,6 | 4<br>5<br>5,3 | 27,5<br>28<br>28 | 5<br>6<br>6,5   |            | 10UWR/P 25/1<br>10UWR/P 25/2<br>10UWR/P 25 |
| 28 | 36<br>36,6       | 5<br>5,3      | 31<br>31         | 6<br>6,5        | •          | 10UWR/P 28/1<br>10UWR/P 28                 |
| 30 | 38<br>38,6       | 5<br>5,3      | 33<br>33         | 6<br>6,5        |            | 10UWR/P 30/1<br>10UWR/P 30                 |
| 32 | 40<br>40,6       | 5<br>5,3      | 35<br>35         | 6<br>6,5        |            | 10UWR/P 32/1<br>10UWR/P 32                 |
| 35 | 43<br>43,6       | 5<br>5,3      | 38<br>38         | 6<br>6,5        |            | 10UWR/P 35/1<br>10UWR/P 35                 |
| 36 | 44<br>44,6       | 5<br>5,3      | 39<br>39         | 6<br>6,5        | •          | 10UWR/P 36/1<br>10UWR/P 36                 |
| 37 | 45,6             | 5,3           | 10               | 6,5             |            | 10UWR/P 37                                 |
| 38 | 46,6             | 5,3           | 41               | 6,5             |            | 10UWR/P 38                                 |
| 40 | 48<br>48,6<br>50 | 5<br>5,3<br>7 | 43<br>43<br>44   | 6<br>6,5<br>8,5 |            | 10UWR/P 40/1<br>10UWR/P 40<br>10UWR/P 40/2 |
| 42 | 50               | 5             | 45               | 6               |            | 10UWR/P 42/1                               |

| d   | D                | L             | C              | H             | ISO 6195/C | Reference                                  |
|-----|------------------|---------------|----------------|---------------|------------|--------------------------------------------|
| 45  | 53<br>53,6       | 5<br>5,3      | 48<br>48       | 6<br>6,5      | •          | 10UWR/P 45/1<br>10UWR/P 45                 |
| 50  | 58<br>58<br>58,6 | 4<br>5<br>5,3 | 53<br>53<br>53 | 6<br>6<br>6,5 |            | 10UWR/P 50/2<br>10UWR/P 50/1<br>10UWR/P 50 |
|     | 60,6             | 5,3           | 53             | 6,5           |            | 10UWR/P 50/3                               |
| 55  | 63,6<br>65       | 5,3<br>6      | 58<br>58       | 6,5<br>7,5    |            | 10UWR/P 55<br>10UWR/P 55/1                 |
| 56  | 64,6<br>66       | 5,3<br>6      | 59<br>59       | 6,5<br>7,5    | •          | 10UWR/P 56<br>10UWR/P 56/1                 |
| 58  | 68               | 6             | 61             | 7,5           |            | 10UWR/P 58/1                               |
| 60  | 68,6<br>70       | 5,3<br>6      | 63<br>63       | 6,5<br>7,5    |            | 10UWR/P 60<br>10UWR/P 60/1                 |
| 63  | 71,6<br>73       | 5,3<br>6      | 66<br>66       | 6,5<br>7,5    |            | 10UWR/P 63<br>10UWR/P 63/1                 |
| 65  | 73,6<br>75       | 5,3<br>6      | 68<br>68       | 6,5<br>7,5    |            | 10UWR/P 65<br>10UWR/P 65/1                 |
| 70  | 78,6<br>80       | 5,3<br>6      | 73<br>73       | 6,5<br>7,5    | •          | 10UWR/P 70<br>10UWR/P 70/1                 |
| 75  | 83,6<br>85       | 5,3<br>6      | 78<br>78       | 6,5<br>7,5    |            | 10UWR/P 75<br>10UWR/P 75/1                 |
| 78  | 88               | 6             | 81             | 7,5           |            | 10UWR/P 78/1                               |
| 80  | 88,6<br>90       | 5,3<br>6      | 83<br>83       | 6,5<br>7,5    |            | 10UWR/P 80<br>10UWR/P 80/1                 |
| 85  | 95<br>97,2       | 6<br>7,1      | 88<br>91       | 7,5<br>8,5    |            | 10UWR/P 85/1<br>10UWR/P 85                 |
| 90  | 100<br>102,2     | 6<br>7,1      | 93<br>96       | 7,5<br>8,5    | •          | 10UWR/P 90/1<br>10UWR/P 90                 |
| 100 | 110<br>112,2     | 6<br>7,1      | 103<br>106     | 7,5<br>8,5    |            | 10UWR/P 100/1<br>10UWR/P 100               |
| 110 | 122,2<br>125     | 7,1<br>8,5    | 116,6<br>114   | 8,5<br>10,5   | •          | 10UWR/P 110<br>10UWR/P 110/1               |
| 120 | 135              | 8,5           | 124            | 10,5          |            | 10UWR/P 120/1                              |
| 125 | 140              | 8,5           | 129            | 10,5          |            | 10UWR/P 125/1                              |
| 140 | 155              | 8,5           | 144            | 10,5          | •          | 10UWR/P 140/1                              |
| 150 | 165              | 8,5           | 154            | 10,5          |            | 10UWR/P 150/1                              |
| 160 | 175              | 8,5           | 164            | 10,5          |            | 10UWR/P 160/1                              |
| 180 | 195              | 8,5           | 184            | 10,5          |            | 10UWR/P 180/1                              |
| 240 | 255              | 8,5           | 244            | 10,5          |            | 10UWR/P 240/1                              |

10UWR/P wipers with diameters between 20 and 1500 mm can be manufactured within short delivery time.

For prices and availability: [www.sealtech-business.be](http://www.sealtech-business.be)





**10UWR/PI** wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side retains the residual oil film from the extending piston rod.

On the static surface, the sealing is achieved by contact of the flexible outside lip with the housing. The dynamic lip is shorter and stronger to concentrate load against the dynamic surface.

The scraper is preferably used in conjunction with seals with a hydrodynamic **back-pumping function** or a drainage channel must be opened in this area.

This wiper is produced in polyurethane which ensures increased **wear resistance** and an extended service life due to good resistance against weathering.

#### Operating conditions ✕ see page 8

|             |                   |
|-------------|-------------------|
| Temperature | -30°C to 100°C    |
| Speed       | ≤ 0,8 m/s         |
| Fluids      | ✕ see pages 22-45 |

#### Materials ✕ see pages 10-19

|              |      |
|--------------|------|
| Polyurethane | PU27 |
|--------------|------|

#### Assembly ✕ see pages 54-59

The wipers may easily be mounted into the grooved housing

#### Advantages

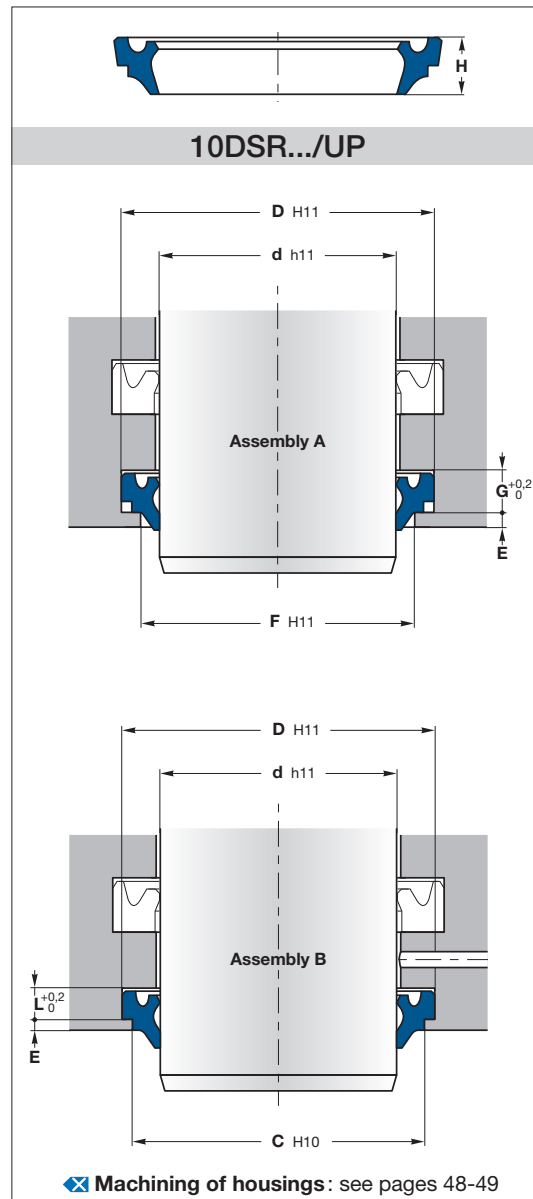
- Reduced oil film leakage
- Easy to assemble
- Simple groove construction
- Extended service life
- Excellent abrasion resistance

**Please contact us for applications approaching maximum values.**

#### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| d      | D      | L    | C      | H   | Reference       |
|--------|--------|------|--------|-----|-----------------|
| 12,7   | 20,64  | 5,15 | 15,75  | 6   | 10UWR/PI 050081 |
| 15,87  | 23,81  | 5,15 | 18,92  | 6   | 10UWR/PI 062094 |
| 19,05  | 26,99  | 5,15 | 22,1   | 6   | 10UWR/PI 075106 |
| 22,22  | 31,75  | 5,54 | 25,65  | 7   | 10UWR/PI 087125 |
| 25,4   | 34,92  | 5,54 | 28,83  | 7   | 10UWR/PI 100137 |
| 28,57  | 38,1   | 5,54 | 32     | 7   | 10UWR/PI 112150 |
| 31,75  | 41,27  | 5,54 | 35,18  | 7   | 10UWR/PI 125162 |
| 34,92  | 44,45  | 5,54 | 38,35  | 7   | 10UWR/PI 137175 |
| 38,1   | 47,62  | 5,54 | 41,53  | 7   | 10UWR/PI 150187 |
| 41,27  | 50,8   | 5,54 | 44,7   | 7   | 10UWR/PI 162200 |
| 44,45  | 53,97  | 5,54 | 47,88  | 7   | 10UWR/PI 175212 |
| 47,62  | 57,15  | 5,54 | 51,05  | 7   | 10UWR/PI 187225 |
| 50,8   | 60,32  | 5,54 | 54,23  | 7   | 10UWR/PI 200237 |
| 53,97  | 63,5   | 5,54 | 57,4   | 7   | 10UWR/PI 212250 |
| 57,15  | 69,85  | 7,15 | 60,58  | 8,3 | 10UWR/PI 225275 |
| 60,32  | 73,02  | 7,15 | 63,75  | 8,3 | 10UWR/PI 237287 |
| 63,5   | 76,2   | 7,15 | 66,93  | 8,3 | 10UWR/PI 250300 |
| 66,67  | 79,37  | 7,15 | 70,1   | 8,3 | 10UWR/PI 262312 |
| 69,85  | 82,55  | 7,15 | 73,28  | 8,3 | 10UWR/PI 275325 |
| 76,2   | 88,9   | 7,15 | 79,63  | 8,3 | 10UWR/PI 300350 |
| 82,55  | 95,25  | 7,15 | 85,98  | 8,3 | 10UWR/PI 325375 |
| 88,9   | 101,6  | 7,15 | 92,33  | 8,3 | 10UWR/PI 350400 |
| 95,25  | 107,95 | 7,15 | 98,68  | 8,3 | 10UWR/PI 375425 |
| 101,6  | 114,3  | 7,15 | 105,03 | 8,3 | 10UWR/PI 400450 |
| 107,95 | 120,65 | 7,15 | 111,38 | 8,3 | 10UWR/PI 425475 |
| 114,3  | 127    | 7,15 | 117,73 | 8,3 | 10UWR/PI 450500 |
| 127    | 139,7  | 7,15 | 130,43 | 8,3 | 10UWR/PI 500550 |
| 139,7  | 152,4  | 7,15 | 143,13 | 8,3 | 10UWR/PI 550600 |
| 152,4  | 165,1  | 7,15 | 155,83 | 8,3 | 10UWR/PI 600650 |
| 177,8  | 190,5  | 7,15 | 181,23 | 8,3 | 10UWR/PI 700750 |
| 203,2  | 215,9  | 7,15 | 206,63 | 8,3 | 10UWR/PI 800850 |



**10DSR.../UP** wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side retains the residual oil film from the extending piston rod.

On the static surface, the sealing is achieved by contact of the flexible outside lip with the housing. The dynamic lip is shorter and stronger to concentrate load against the dynamic surface.

The scraper is preferably used in conjunction with seals with a hydrodynamic **back-pumping function**.

For assembly B (see picture) a drainage channel must be opened in this area.

This wiper is produced in polyurethane which ensures increased **wear resistance** and an extended service life due to good resistance against weathering.

#### Operating conditions

✕ see page 8

Temperature -30°C to 100°C  
Speed  $\leq 0,8$  m/s  
Fluids ✕ see pages 22-45

#### Materials

✕ see pages 10-19

Polyurethane PU11

#### Assembly

✕ see pages 54-59

The wipers may easily be mounted into the grooved housing

#### Advantages

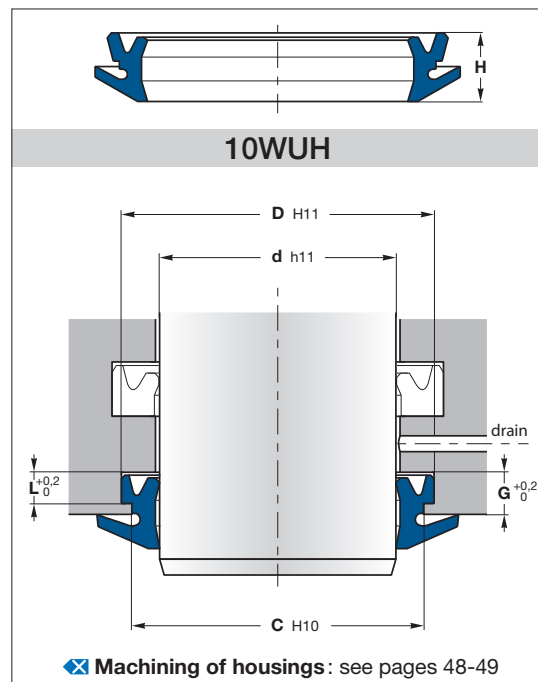
Good protection of the housing against external intrusion  
Reduced oil film leakage  
Easy to assemble  
Small housing  
Simple groove construction  
Extended service life  
Excellent abrasion resistance

**Please contact us for applications approaching maximum values.**

#### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| d   | D   | L   | C   | F     | G   | E | H  | Reference    |
|-----|-----|-----|-----|-------|-----|---|----|--------------|
| 10  | 18  | 4   | 16  | 13,5  | 6   | 2 | 8  | 10DSR 10/UP  |
| 12  | 20  | 4   | 18  | 15,5  | 6   | 2 | 8  | 10DSR 12/UP  |
| 14  | 22  | 4   | 20  | 17,5  | 6   | 2 | 8  | 10DSR 14/UP  |
| 15  | 23  | 4   | 21  | 18,5  | 6   | 2 | 8  | 10DSR 15/UP  |
| 16  | 24  | 4   | 22  | 19,5  | 6   | 2 | 8  | 10DSR 16/UP  |
| 18  | 26  | 4   | 24  | 21,5  | 6   | 2 | 8  | 10DSR 18/UP  |
| 20  | 28  | 4   | 26  | 23,5  | 6   | 2 | 8  | 10DSR 20/UP  |
| 22  | 30  | 4   | 28  | 25,5  | 6   | 2 | 8  | 10DSR 22/UP  |
| 25  | 33  | 4   | 31  | 28,5  | 6   | 2 | 8  | 10DSR 25/UP  |
| 28  | 36  | 4   | 34  | 31,5  | 6   | 2 | 8  | 10DSR 28/UP  |
| 30  | 38  | 4   | 36  | 33,5  | 6   | 2 | 8  | 10DSR 30/UP  |
| 32  | 40  | 4   | 38  | 35,5  | 6   | 2 | 8  | 10DSR 32/UP  |
| 35  | 43  | 4   | 41  | 38,5  | 6   | 2 | 8  | 10DSR 35/UP  |
| 36  | 44  | 4   | 42  | 39,5  | 6   | 2 | 8  | 10DSR 36/UP  |
| 40  | 48  | 4   | 46  | 43,5  | 6   | 2 | 8  | 10DSR 40/UP  |
| 42  | 50  | 4   | 48  | 45,5  | 6   | 2 | 8  | 10DSR 42/UP  |
| 45  | 53  | 4   | 51  | 48,5  | 6   | 2 | 8  | 10DSR 45/UP  |
| 50  | 58  | 4   | 56  | 53,5  | 6   | 2 | 8  | 10DSR 50/UP  |
| 55  | 63  | 4   | 61  | 58,5  | 6   | 2 | 8  | 10DSR 55/UP  |
| 56  | 64  | 4   | 62  | 59,5  | 6   | 2 | 8  | 10DSR 56/UP  |
| 60  | 68  | 4   | 66  | 63,5  | 6   | 2 | 8  | 10DSR 60/UP  |
| 63  | 71  | 4   | 69  | 66,5  | 6   | 2 | 8  | 10DSR 63/UP  |
| 65  | 73  | 4   | 71  | 68,5  | 6   | 2 | 8  | 10DSR 65/UP  |
| 70  | 78  | 4   | 76  | 73,5  | 6   | 2 | 8  | 10DSR 70/UP  |
| 75  | 83  | 4   | 81  | 78,5  | 6   | 2 | 8  | 10DSR 75/UP  |
| 80  | 88  | 4   | 86  | 83,5  | 6   | 2 | 8  | 10DSR 80/UP  |
| 85  | 93  | 4   | 91  | 88,5  | 6   | 2 | 8  | 10DSR 85/UP  |
| 90  | 98  | 4   | 96  | 93,5  | 6   | 2 | 8  | 10DSR 90/UP  |
| 100 | 108 | 4   | 106 | 103,5 | 6   | 2 | 8  | 10DSR 100/UP |
| 105 | 117 | 5,5 | 114 | 110   | 8,2 | 3 | 11 | 10DSR 105/UP |
| 110 | 122 | 5,5 | 119 | 115   | 8,2 | 3 | 11 | 10DSR 110/UP |
| 115 | 127 | 5,5 | 124 | 120   | 8,2 | 3 | 11 | 10DSR 115/UP |
| 120 | 132 | 5,5 | 129 | 125   | 8,2 | 3 | 11 | 10DSR 120/UP |
| 125 | 137 | 5,5 | 134 | 130   | 8,2 | 3 | 11 | 10DSR 125/UP |
| 130 | 142 | 5,5 | 139 | 135   | 8,2 | 3 | 11 | 10DSR 130/UP |



**10WUH** wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side retains the residual oil film from the extending piston rod.

The special feature of this wiper is the external flap which covers the gland housing and prevents the **intrusion of particles** and moisture around the outside.

The scraper is preferably used in conjunction with seals with a hydrodynamic **back-pumping function**.

This wiper is produced in polyurethane which ensures increased **wear resistance** and an extended service life due to good resistance against weathering.

## Operating conditions see page 8

|             |                                                                                                    |
|-------------|----------------------------------------------------------------------------------------------------|
| Temperature | -30°C to 100°C                                                                                     |
| Speed       | ≤ 0,8 m/s                                                                                          |
| Fluids      |  see pages 22-45 |

## Materials see pages 10-19

|              |            |
|--------------|------------|
| Polyurethane | PU 93 Sh A |
|--------------|------------|

## Assembly see pages 54-59

The wipers may easily be mounted into the grooved housing

## Advantages

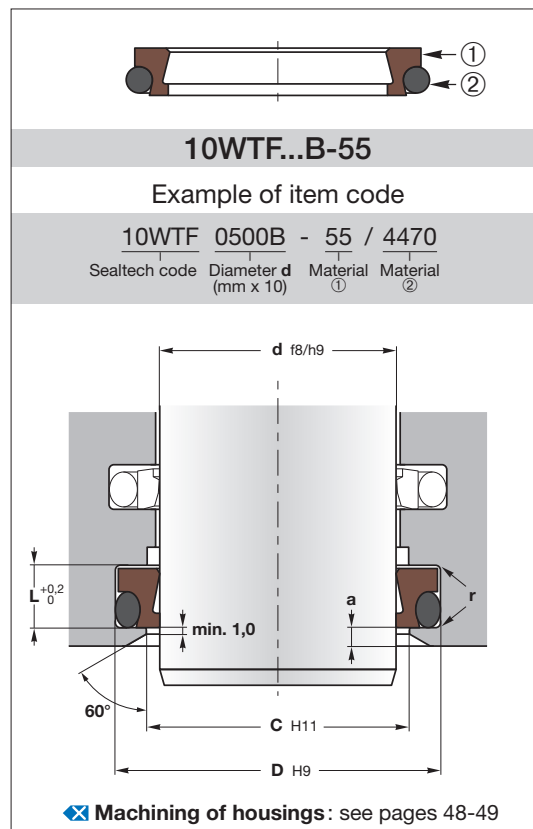
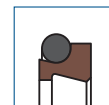
- Absolute protection against moisture entering the groove
- Developed for heavy duty applications: mining industry, foundries...
- Reduced oil film leakage
- No push out of the wiper through excessive pressure
- Particularly suitable for vertical cylinders pointing upwards
- Excellent abrasion resistance
- Extended service life
- Easy to assemble
- Small housing

**Please contact us for applications approaching maximum values.**

## More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| d   | D   | L   | C   | G   | H    | Reference |
|-----|-----|-----|-----|-----|------|-----------|
| 26  | 34  | 4   | 32  | 5   | 8,7  | 10WUH 26  |
| 30  | 38  | 4   | 36  | 5   | 8,7  | 10WUH 30  |
| 32  | 40  | 4   | 38  | 5   | 8,7  | 10WUH 32  |
| 36  | 44  | 4   | 42  | 5   | 8,7  | 10WUH 36  |
| 40  | 48  | 4   | 46  | 5   | 8,7  | 10WUH 40  |
| 45  | 53  | 4   | 51  | 5   | 8,7  | 10WUH 45  |
| 50  | 58  | 4   | 56  | 5   | 8,7  | 10WUH 50  |
| 52  | 60  | 4   | 58  | 5   | 8,7  | 10WUH 52  |
| 56  | 64  | 4   | 62  | 5   | 8,7  | 10WUH 56  |
| 60  | 68  | 4   | 66  | 5   | 8,7  | 10WUH 60  |
| 68  | 76  | 4   | 74  | 5   | 8,7  | 10WUH 68  |
| 70  | 78  | 4   | 76  | 5   | 8,7  | 10WUH 70  |
| 75  | 83  | 4   | 81  | 5   | 8,7  | 10WUH 75  |
| 80  | 88  | 4   | 86  | 5   | 8,7  | 10WUH 80  |
| 100 | 110 | 6,3 | 107 | 8,1 | 11,7 | 10WUH 100 |
| 110 | 125 | 9,5 | 120 | 12  | 17   | 10WUH 110 |
| 125 | 140 | 9,5 | 135 | 12  | 17   | 10WUH 125 |



Please contact us for applications approaching maximum values.

| d (mm)         |                | L (mm) | D (mm)   | C (mm)  | a min. (mm) | O-ring C/S ② |
|----------------|----------------|--------|----------|---------|-------------|--------------|
| Standard range | Extended range |        |          |         |             |              |
| 6 → 11,9       | 6 → 13         | 3,7    | d + 4,8  | d + 1,5 | 2           | 1,78         |
| 12 → 64,9      | 10 → 245       | 5      | d + 6,8  | d + 1,5 | 2           | 2,62         |
| 65 → 250,9     | 25 → 400       | 6      | d + 8,8  | d + 1,5 | 3           | 3,53         |
| 251 → 420,9    | 40 → 655       | 8,4    | d + 12,2 | d + 2   | 4           | 5,34         |
| 421 → 650,9    | 110 → 655      | 11     | d + 16   | d + 2   | 4           | 7            |
| 651 → 999,9    | 140 → 999,9    | 14     | d + 20   | d + 2,5 | 5           | 8,4          |
| ≥ 1000         |                | 14     | d + 20   | d + 2,5 | 5           | 8,4          |

**10WTF...B-55** wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side holds back the residual oil film passing the rod seal.

This wiper is composed of a dynamic PTFE ring with a scraper lip respectively sealing lip positioned back-to-back.

PTFE material assures low friction and high speed performance and has also **high compatibility** with nearly all media due to his chemical resistance which exceeds that of all other thermoplastics and elastomers.

The elastomer O-ring on the static side works as an energising ring and pressurises the scraper lips against the sliding surface and thereby can also compensate deflections of the piston rod.

If necessary, different O-ring materials can be chosen to suit the application.

The scraper is preferably used in conjunction with seals with a hydrodynamic **back-pumping function** or a drainage channel must be opened in this area.

#### Operating conditions [see page 8](#)

|             |                                 |
|-------------|---------------------------------|
| Temperature | -30°C to 100°C                  |
| Speed       | ≤ 15 m/s                        |
| Fluids      | <a href="#">see pages 22-45</a> |

#### Materials [see pages 10-19](#)

|                           |             |
|---------------------------|-------------|
| Dynamic sealing element ① | PT55        |
| Energising element ②      | NBR 70 Sh A |

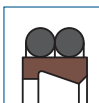
#### Assembly [see pages 54-59](#)

O-ring and PTFE-ring may easily be mounted into the grooved housing (above 30 mm)

#### Advantages

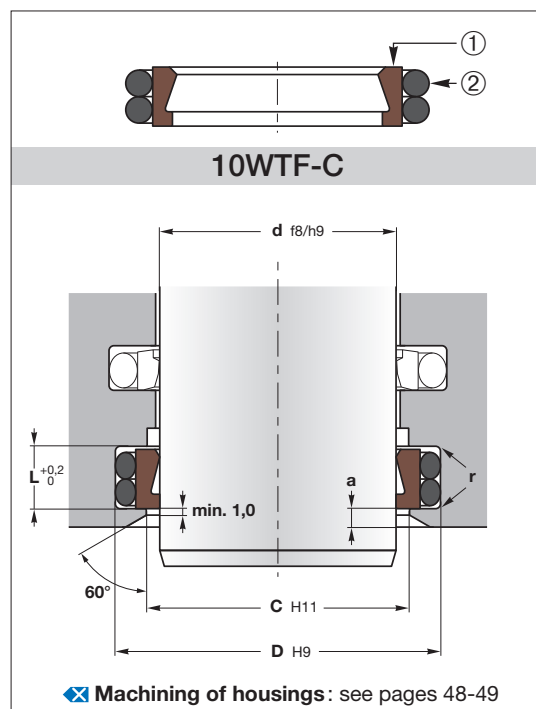
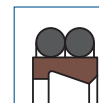
- High speed performance
- Low static and dynamic friction
- No stick-slip
- Can compensate rod deflections
- Very good scraping effect against impurities and from the inside against the residual oil film
- High chemical compatibility with the right O-ring
- Large temperature range -45°C up to 200°C with the right O-ring
- Extended service life
- Simple groove construction

| d   | D     | L   | C     | r   | a min | O-ring NBR 70 Sh A | ISO 6165/D | Reference           |
|-----|-------|-----|-------|-----|-------|--------------------|------------|---------------------|
| 6   | 10,8  | 3,7 | 7,5   | 0,4 | 2     | 7,65 x 1,78        | •          | 10WTF 0060B-55/4470 |
| 8   | 12,8  | 3,7 | 9,5   | 0,4 | 2     | 9,25 x 1,78        | •          | 10WTF 0080B-55/4470 |
| 10  | 14,8  | 3,7 | 11,5  | 0,4 | 2     | 10,82 x 1,78       | •          | 10WTF 0100B-55/4470 |
| 12  | 18,8  | 5   | 13,5  | 0,7 | 2     | 13,94 x 2,62       | •          | 10WTF 0120B-55/4470 |
| 14  | 20,8  | 5   | 15,5  | 0,7 | 2     | 15,54 x 2,62       | •          | 10WTF 0140B-55/4470 |
| 15  | 21,8  | 5   | 16,5  | 0,7 | 2     | 17,62 x 2,62       | •          | 10WTF 0150B-55/4470 |
| 16  | 22,8  | 5   | 17,5  | 0,7 | 2     | 18,72 x 2,62       | •          | 10WTF 0160B-55/4470 |
| 18  | 24,8  | 5   | 19,5  | 0,7 | 2     | 20,29 x 2,62       | •          | 10WTF 0180B-55/4470 |
| 20  | 26,8  | 5   | 21,5  | 0,7 | 2     | 21,89 x 2,62       | •          | 10WTF 0200B-55/4470 |
| 22  | 28,8  | 5   | 23,5  | 0,7 | 2     | 23,47 x 2,62       | •          | 10WTF 0220B-55/4470 |
| 25  | 31,8  | 5   | 26,5  | 0,7 | 2     | 26,64 x 2,62       | •          | 10WTF 0250B-55/4470 |
| 28  | 34,8  | 5   | 29,5  | 0,7 | 2     | 29,82 x 2,62       | •          | 10WTF 0280B-55/4470 |
| 30  | 36,8  | 5   | 31,5  | 0,7 | 2     | 31,42 x 2,62       | •          | 10WTF 0300B-55/4470 |
| 32  | 38,8  | 5   | 33,5  | 0,7 | 2     | 34,59 x 2,62       | •          | 10WTF 0320B-55/4470 |
| 35  | 41,8  | 5   | 36,5  | 0,7 | 2     | 36,17 x 2,62       | •          | 10WTF 0350B-55/4470 |
| 36  | 42,8  | 5   | 37,5  | 0,7 | 2     | 37,77 x 2,62       | •          | 10WTF 0360B-55/4470 |
| 40  | 46,8  | 5   | 41,5  | 0,7 | 2     | 42,52 x 2,62       | •          | 10WTF 0400B-55/4470 |
| 42  | 48,8  | 5   | 43,5  | 0,7 | 2     | 44,12 x 2,62       | •          | 10WTF 0420B-55/4470 |
| 45  | 51,8  | 5   | 46,5  | 0,7 | 2     | 47,29 x 2,62       | •          | 10WTF 0450B-55/4470 |
| 50  | 56,8  | 5   | 51,5  | 0,7 | 2     | 52,07 x 2,62       | •          | 10WTF 0500B-55/4470 |
| 55  | 61,8  | 5   | 56,5  | 0,7 | 2     | 56,82 x 2,62       | •          | 10WTF 0550B-55/4470 |
| 56  | 62,8  | 5   | 57,5  | 0,7 | 2     | 58,42 x 2,62       | •          | 10WTF 0560B-55/4470 |
| 60  | 66,8  | 5   | 61,5  | 0,7 | 2     | 61,6 x 2,62        | •          | 10WTF 0600B-55/4470 |
| 63  | 69,8  | 5   | 64,5  | 0,7 | 2     | 64,77 x 2,62       | •          | 10WTF 0630B-55/4470 |
| 65  | 73,8  | 6   | 66,5  | 1   | 3     | 66,27 x 3,53       | •          | 10WTF 0650B-55/4470 |
| 70  | 78,8  | 6   | 71,5  | 1   | 3     | 72,62 x 3,53       | •          | 10WTF 0700B-55/4470 |
| 75  | 83,8  | 6   | 76,5  | 1   | 3     | 75,79 x 3,53       | •          | 10WTF 0750B-55/4470 |
| 80  | 88,8  | 6   | 81,5  | 1   | 3     | 82,14 x 3,53       | •          | 10WTF 0800B-55/4470 |
| 85  | 93,8  | 6   | 86,5  | 1   | 3     | 88,49 x 3,53       | •          | 10WTF 0850B-55/4470 |
| 90  | 98,8  | 6   | 91,5  | 1   | 3     | 91,67 x 3,53       | •          | 10WTF 0900B-55/4470 |
| 95  | 103,8 | 6   | 96,5  | 1   | 3     | 98,02 x 3,53       | •          | 10WTF 0950B-55/4470 |
| 100 | 108,8 | 6   | 101,5 | 1   | 3     | 104,37 x 3,53      | •          | 10WTF 1000B-55/4470 |
| 105 | 113,8 | 6   | 106,5 | 1   | 3     | 107,54 x 3,53      | •          | 10WTF 1050B-55/4470 |
| 110 | 118,8 | 6   | 111,5 | 1   | 3     | 113,89 x 3,53      | •          | 10WTF 1100B-55/4470 |
| 115 | 123,8 | 6   | 116,5 | 1   | 3     | 117,07 x 3,53      | •          | 10WTF 1150B-55/4470 |
| 120 | 128,8 | 6   | 121,5 | 1   | 3     | 123,42 x 3,53      | •          | 10WTF 1200B-55/4470 |
| 125 | 133,8 | 6   | 126,5 | 1   | 3     | 129,77 x 3,53      | •          | 10WTF 1250B-55/4470 |
| 130 | 138,8 | 6   | 131,5 | 1   | 3     | 132,94 x 3,53      | •          | 10WTF 1300B-55/4470 |
| 135 | 143,8 | 6   | 136,5 | 1   | 3     | 139,29 x 3,53      | •          | 10WTF 1350B-55/4470 |
| 140 | 148,8 | 6   | 141,5 | 1   | 3     | 142,47 x 3,53      | •          | 10WTF 1400B-55/4470 |
| 150 | 158,8 | 6   | 151,5 | 1   | 3     | 151,99 x 3,53      | •          | 10WTF 1500B-55/4470 |
| 153 | 161,8 | 6   | 154,5 | 1   | 3     | 158,34 x 3,53      | •          | 10WTF 1530B-55/4470 |
| 160 | 168,8 | 6   | 161,5 | 1   | 3     | 164,69 x 3,53      | •          | 10WTF 1600B-55/4470 |
| 170 | 178,8 | 6   | 171,5 | 1   | 3     | 171,04 x 3,53      | •          | 10WTF 1700B-55/4470 |
| 173 | 181,8 | 6   | 174,5 | 1   | 3     | 171,04 x 3,53      | •          | 10WTF 1730B-55/4470 |
| 180 | 188,8 | 6   | 181,5 | 1   | 3     | 183,74 x 3,53      | •          | 10WTF 1800B-55/4470 |
| 190 | 198,8 | 6   | 191,5 | 1   | 3     | 196,44 x 3,53      | •          | 10WTF 1900B-55/4470 |
| 200 | 208,8 | 6   | 201,5 | 1   | 3     | 202,79 x 3,53      | •          | 10WTF 2000B-55/4470 |
| 240 | 248,8 | 6   | 241,5 | 1   | 3     | 247,24 x 3,53      | •          | 10WTF 2400B-55/4470 |



## 10WTF-C

## PTFE double acting wiper with two energising rings



**10WTF-C** wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side holds back the residual oil film passing the rod seal.

This wiper is composed of a dynamic PTFE ring with a scraper lip respectively sealing lip positioned back-to-back. The wiper is always installed with two O-rings in one groove.

PTFE material assures low friction and high speed performance and has also **high compatibility** with nearly all media due to his chemical resistance which exceeds that of all other thermoplastics and elastomers.

Both elastomer O-rings on the static side work as an energising rings and pressurise the scraper lips against the sliding surface and thereby can also compensate deflections of the piston rod.

If necessary, different O-ring materials can be chosen to suit the application.

The scraper is preferably used in conjunction with seals with a hydrodynamic **back-pumping function** or a drainage channel must be opened in this area.

### Operating conditions see page 8

|             |                                                                                                    |
|-------------|----------------------------------------------------------------------------------------------------|
| Temperature | -30°C to 100°C                                                                                     |
| Speed       | ≤ 5 m/s                                                                                            |
| Fluids      |  see pages 22-45 |

### Materials see pages 10-19

|                           |             |
|---------------------------|-------------|
| Dynamic sealing element ① | PT55        |
| Energising element ②      | NBR 70 Sh A |

### Assembly see pages 54-59

O-ring and PTFE-ring may easily be mounted into the grooved housing (above 30 mm)

### Advantages

- High speed performance
- Low static and dynamic friction
- No stick-slip
- Can compensate rod deflections
- Very good scraping effect against impurities and from the inside against the residual oil film
- High chemical compatibility with the right O-rings
- Large temperature range -45°C up to 200°C with the right O-rings
- Extended service life
- Simple groove construction

**Please contact us for applications approaching maximum values.**

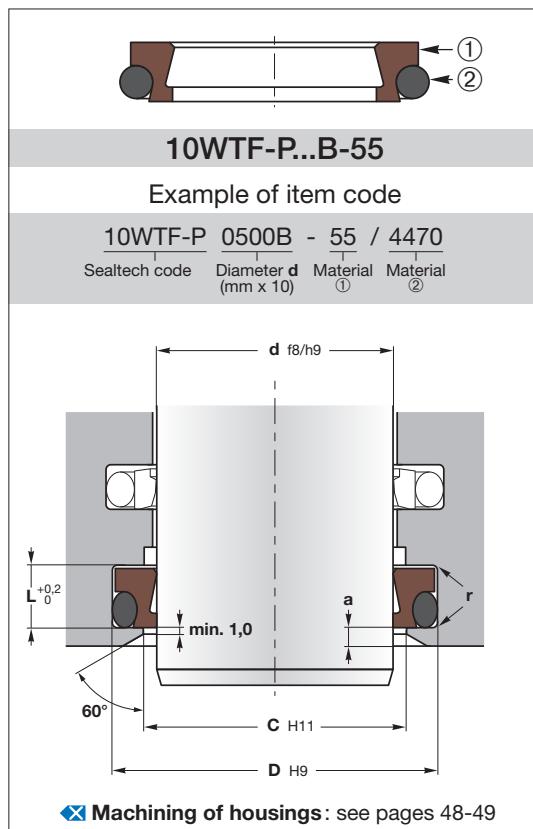
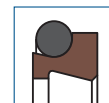
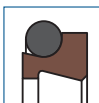
### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

| d<br>(mm)   | L<br>(mm) | D<br>(mm) | C<br>(mm) | a <sub>min.</sub><br>(mm) | O-ring C/S<br>② |
|-------------|-----------|-----------|-----------|---------------------------|-----------------|
| 20 → 39,9   | 4,2       | d + 7,6   | d + 1     | 4                         | 1,78            |
| 40 → 69,9   | 6,3       | d + 8,8   | d + 1,5   | 4                         | 2,62            |
| 70 → 139,9  | 8,1       | d + 12,2  | d + 2     | 4                         | 3,53            |
| 140 → 399,9 | 11,5      | d + 16    | d + 2     | 5                         | 5,34            |
| 400 → 649,9 | 15,5      | d + 24    | d + 2,5   | 6                         | 7               |
| 650 → 999,9 | 18        | d + 27,3  | d + 2,5   | 8                         | 8,4             |

| d   | D     | L    | C     | r   | a <sub>min</sub> | O-ring<br>2 pcs<br>NBR 70 Sh A | ISO 6155/D | Reference   |
|-----|-------|------|-------|-----|------------------|--------------------------------|------------|-------------|
| 20  | 27,6  | 4,2  | 21    | 0,4 | 3                | 23,52 x 1,78                   | •          | 10WTF-C 20  |
| 25  | 32,6  | 4,2  | 26    | 0,4 | 3                | 28,3 x 1,78                    | •          | 10WTF-C 25  |
| 28  | 35,6  | 4,2  | 29    | 0,4 | 3                | 31,47 x 1,78                   | •          | 10WTF-C 28  |
| 30  | 37,6  | 4,2  | 31    | 0,4 | 3                | 34,65 x 1,78                   | •          | 10WTF-C 30  |
| 32  | 39,6  | 4,2  | 33    | 0,4 | 3                | 36,27 x 1,78                   | •          | 10WTF-C 32  |
| 36  | 43,6  | 4,2  | 37    | 0,4 | 3                | 39,45 x 1,78                   | •          | 10WTF-C 36  |
| 40  | 48,8  | 6,3  | 41,5  | 1,2 | 3                | 44,12 x 2,62                   | •          | 10WTF-C 40  |
| 45  | 53,8  | 6,3  | 46,5  | 1,2 | 3                | 48,9 x 2,62                    | •          | 10WTF-C 45  |
| 50  | 58,8  | 6,3  | 51,5  | 1,2 | 3                | 53,64 x 2,62                   | •          | 10WTF-C 50  |
| 55  | 63,8  | 6,3  | 56,5  | 1,2 | 3                | 58,42 x 2,62                   | •          | 10WTF-C 55  |
| 56  | 64,8  | 6,3  | 57,5  | 1,2 | 3                | 59,99 x 2,62                   | •          | 10WTF-C 56  |
| 60  | 68,8  | 6,3  | 61,5  | 1,2 | 3                | 64,77 x 2,62                   | •          | 10WTF-C 60  |
| 63  | 71,8  | 6,3  | 64,5  | 1,2 | 3                | 67,95 x 2,62                   | •          | 10WTF-C 63  |
| 65  | 73,8  | 6,3  | 66,5  | 1,2 | 3                | 69,52 x 2,62                   | •          | 10WTF-C 65  |
| 70  | 82,2  | 8,1  | 72    | 2   | 4                | 75,79 x 3,53                   | •          | 10WTF-C 70  |
| 75  | 87,2  | 8,1  | 77    | 2   | 4                | 78,97 x 3,53                   | •          | 10WTF-C 75  |
| 80  | 92,2  | 8,1  | 82    | 2   | 4                | 85,32 x 3,53                   | •          | 10WTF-C 80  |
| 85  | 97,2  | 8,1  | 87    | 2   | 4                | 88,49 x 3,53                   | •          | 10WTF-C 85  |
| 90  | 102,2 | 8,1  | 92    | 2   | 4                | 94,84 x 3,53                   | •          | 10WTF-C 90  |
| 100 | 112,2 | 8,1  | 102   | 2   | 4                | 107,54 x 3,53                  | •          | 10WTF-C 100 |
| 105 | 117,2 | 8,1  | 107   | 2   | 4                | 110,72 x 3,53                  | •          | 10WTF-C 105 |
| 110 | 122,2 | 8,1  | 112   | 2   | 4                | 113,89 x 3,53                  | •          | 10WTF-C 110 |
| 115 | 127,2 | 8,1  | 117   | 2   | 4                | 120,24 x 3,53                  | •          | 10WTF-C 115 |
| 120 | 132,2 | 8,1  | 122   | 2   | 4                | 123,42 x 3,53                  | •          | 10WTF-C 120 |
| 125 | 137,2 | 8,1  | 127   | 2   | 4                | 129,77 x 3,53                  | •          | 10WTF-C 125 |
| 130 | 142,2 | 8,1  | 132   | 2   | 4                | 136,12 x 3,53                  | •          | 10WTF-C 130 |
| 140 | 156   | 11,5 | 142   | 2   | 5                | 145,42 x 5,34                  | •          | 10WTF-C 140 |
| 150 | 166   | 11,5 | 152   | 2   | 5                | 151,77 x 5,34                  | •          | 10WTF-C 150 |
| 160 | 176   | 11,5 | 162   | 2   | 5                | 164,47 x 5,34                  | •          | 10WTF-C 160 |
| 170 | 186   | 11,5 | 172   | 2   | 5                | 177,17 x 5,34                  | •          | 10WTF-C 170 |
| 180 | 196   | 11,5 | 182   | 2   | 5                | 183,52 x 5,34                  | •          | 10WTF-C 180 |
| 190 | 206   | 11,5 | 192   | 2   | 5                | 196,22 x 5,34                  | •          | 10WTF-C 190 |
| 200 | 216   | 11,5 | 202   | 2   | 5                | 202,57 x 5,34                  | •          | 10WTF-C 200 |
| 220 | 236   | 11,5 | 222   | 2   | 5                | 221,62 x 5,34                  | •          | 10WTF-C 220 |
| 230 | 246   | 11,5 | 232   | 2   | 5                | 234,32 x 5,34                  | •          | 10WTF-C 230 |
| 240 | 256   | 11,5 | 242   | 2   | 5                | 247,02 x 5,34                  | •          | 10WTF-C 240 |
| 250 | 266   | 11,5 | 252   | 2   | 5                | 253,37 x 5,34                  | •          | 10WTF-C 250 |
| 260 | 276   | 11,5 | 262   | 2   | 5                | 266,07 x 5,34                  | •          | 10WTF-C 260 |
| 280 | 296   | 11,5 | 282   | 2   | 5                | 278,77 x 5,34                  | •          | 10WTF-C 280 |
| 300 | 316   | 11,5 | 302   | 2   | 5                | 304,17 x 5,34                  | •          | 10WTF-C 300 |
| 310 | 326   | 11,5 | 312   | 2   | 5                | 315 x 5,34                     | •          | 10WTF-C 310 |
| 320 | 336   | 11,5 | 322   | 2   | 5                | 329,57 x 5,34                  | •          | 10WTF-C 320 |
| 350 | 366   | 11,5 | 352   | 2   | 5                | 354,97 x 5,34                  | •          | 10WTF-C 350 |
| 360 | 376   | 11,5 | 362   | 2   | 5                | 365 x 5,3                      | •          | 10WTF-C 360 |
| 400 | 424   | 15,5 | 402,5 | 2   | 6                | 405,26 x 7                     | •          | 10WTF-C 400 |





## 10WTF-P...B-55

Example of item code

10WTF-P 0500B - 55 / 4470

| Sealtech code | Diameter d (mm x 10) | Material ① | Material ② |
|---------------|----------------------|------------|------------|
| 10WTF-P       | 0500B                | 55         | 4470       |

**10WTF-P...B-55** wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side holds back the residual oil film passing the rod seal.

This wiper is composed of a dynamic PTFE ring with a scraper lip respectively sealing lip positioned back-to-back.

Compared to 10WTF...B-55, **10WTF-P...B-55** are more robust and used particularly for heavy-duty applications such as in construction machinery, presses, etc.

PTFE material assures low friction and high speed performance and has also **high compatibility** with nearly all media due to his chemical resistance which exceeds that of all other thermoplastics and elastomers.

The elastomer O-ring on the static side works as an energising ring and pressurises the scraper lips against the sliding surface and thereby can also compensate deflections of the piston rod.

If necessary, different O-ring materials can be chosen to suit the application.

The scraper is preferably used in conjunction with seals with a hydrodynamic **back-pumping function** or a drainage channel must be opened in this area.

#### Operating conditions

Temperature -30°C to 100°C  
Speed ≤ 15 m/s  
Fluids

#### Materials

Dynamic sealing element ① PT55  
Energising element ② NBR 70 Sh A

#### Assembly

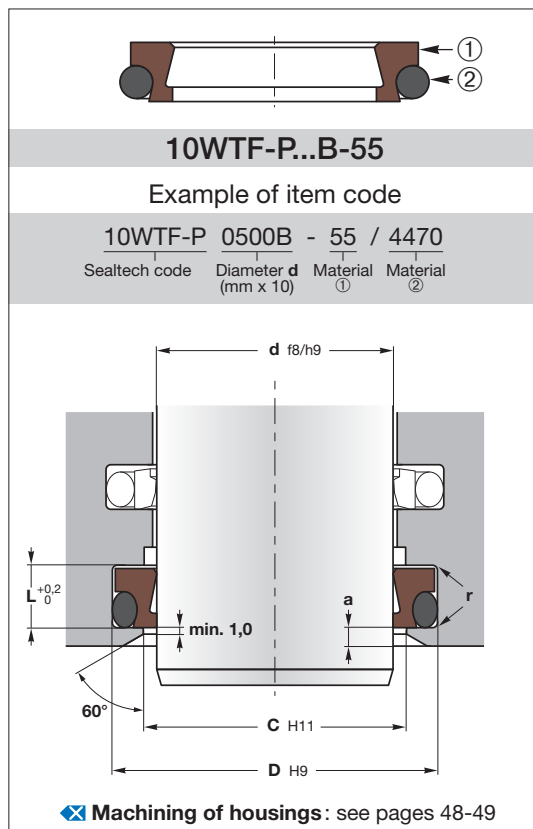
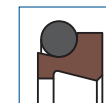
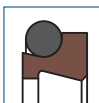
O-ring and PTFE-ring may easily be mounted into the grooved housing (above 30 mm)

#### Advantages

- High speed performance
- Low static and dynamic friction
- No stick-slip and extended service life
- Can compensate rod deflections
- Very good scraping effect against impurities and from the inside against the residual oil film
- High chemical compatibility with the right O-ring
- Large temperature range -50°C up to 200°C with the right O-ring

| d (mm)         |                | L (mm) | D (mm)   | C (mm)  | a min. (mm) | O-ring C/S ② |
|----------------|----------------|--------|----------|---------|-------------|--------------|
| Standard range | Extended range |        |          |         |             |              |
| 19 → 39,9      | 19 → 100       | 4,2    | d + 7,6  | d + 1,5 | 3           | 2,62         |
| 40 → 69,9      | 30 → 200       | 6,3    | d + 8,8  | d + 1,5 | 3           | 2,62         |
| 70 → 139,9     | 70 → 350       | 8,1    | d + 12,2 | d + 2   | 4           | 3,53         |
| 140 → 399,9    | 100 → 650      | 9,5    | d + 16   | d + 2,5 | 5           | 5,34         |
| 400 → 649,9    | 200 → 650      | 14     | d + 24   | d + 2,5 | 8           | 7            |
| 650 → 999,9    | 400 → 999,9    | 16     | d + 27,3 | d + 2,5 | 10          | 8,4          |
| ≥ 1000         |                | 16     | d + 27,3 | d + 2,5 | 10          | 8,4          |

| d   | D     | L   | C     | r   | a min | O-ring NBR 70 Sh A | ISO 6185/D | Reference             |
|-----|-------|-----|-------|-----|-------|--------------------|------------|-----------------------|
| 20  | 27,6  | 4,2 | 21,5  | 0,8 | 3     | 21,89 x 2,62       | •          | 10WTF-P 0200B-55/4470 |
| 25  | 32,6  | 4,2 | 26,5  | 0,8 | 3     | 28,24 x 2,62       |            | 10WTF-P 0250B-55/4470 |
| 28  | 35,6  | 4,2 | 29,5  | 0,8 | 3     | 29,82 x 2,62       |            | 10WTF-P 0280B-55/4470 |
| 30  | 37,6  | 4,2 | 31,5  | 0,8 | 3     | 32,99 x 2,62       | •          | 10WTF-P 0300B-55/4470 |
| 32  | 39,6  | 4,2 | 33,5  | 0,8 | 3     | 34,59 x 2,62       |            | 10WTF-P 0320B-55/4470 |
| 36  | 43,6  | 4,2 | 37,5  | 0,8 | 3     | 39,34 x 2,62       |            | 10WTF-P 0360B-55/4470 |
| 40  | 48,8  | 6,3 | 41,5  | 0,8 | 3     | 44,12 x 2,62       | •          | 10WTF-P 0400B-55/4470 |
| 42  | 50,8  | 6,3 | 43,5  | 0,8 | 3     | 45,69 x 2,62       |            | 10WTF-P 0420B-55/4470 |
| 45  | 53,8  | 6,3 | 46,5  | 0,8 | 3     | 48,9 x 2,62        |            | 10WTF-P 0450B-55/4470 |
| 50  | 58,8  | 6,3 | 51,5  | 0,8 | 3     | 53,64 x 2,62       | •          | 10WTF-P 0500B-55/4470 |
| 55  | 63,8  | 6,3 | 56,5  | 0,8 | 3     | 58,42 x 2,62       |            | 10WTF-P 0550B-55/4470 |
| 56  | 64,8  | 6,3 | 57,5  | 0,8 | 3     | 59,99 x 2,62       |            | 10WTF-P 0560B-55/4470 |
| 60  | 68,8  | 6,3 | 61,5  | 0,8 | 3     | 63,17 x 2,62       | •          | 10WTF-P 0600B-55/4470 |
| 63  | 71,8  | 6,3 | 64,5  | 0,8 | 3     | 66,34 x 2,62       |            | 10WTF-P 0630B-55/4470 |
| 65  | 73,8  | 6,3 | 66,5  | 0,8 | 3     | 67,95 x 2,62       |            | 10WTF-P 0650B-55/4470 |
| 70  | 82,2  | 8,1 | 72    | 1,5 | 4     | 75,79 x 3,53       | •          | 10WTF-P 0700B-55/4470 |
| 75  | 87,2  | 8,1 | 77    | 1,5 | 4     | 78,97 x 3,53       |            | 10WTF-P 0750B-55/4470 |
| 80  | 92,2  | 8,1 | 82    | 1,5 | 4     | 85,32 x 3,53       |            | 10WTF-P 0800B-55/4470 |
| 85  | 97,2  | 8,1 | 87    | 1,5 | 4     | 88,49 x 3,53       | •          | 10WTF-P 0850B-55/4470 |
| 90  | 102,2 | 8,1 | 92    | 1,5 | 4     | 94,84 x 3,53       |            | 10WTF-P 0900B-55/4470 |
| 95  | 107,2 | 8,1 | 97    | 1,5 | 4     | 101,19 x 3,53      |            | 10WTF-P 0950B-55/4470 |
| 100 | 112,2 | 8,1 | 102   | 1,5 | 4     | 104,37 x 3,53      | •          | 10WTF-P 1000B-55/4470 |
| 105 | 117,2 | 8,1 | 107   | 1,5 | 4     | 110,72 x 3,53      |            | 10WTF-P 1050B-55/4470 |
| 110 | 122,2 | 8,1 | 112   | 1,5 | 4     | 113,89 x 3,53      |            | 10WTF-P 1100B-55/4470 |
| 115 | 127,2 | 8,1 | 117   | 1,5 | 4     | 120,24 x 3,53      | •          | 10WTF-P 1150B-55/4470 |
| 120 | 132,2 | 8,1 | 122   | 1,5 | 4     | 123,42 x 3,53      |            | 10WTF-P 1200B-55/4470 |
| 125 | 137,2 | 8,1 | 127   | 1,5 | 4     | 129,77 x 3,53      |            | 10WTF-P 1250B-55/4470 |
| 130 | 142,2 | 8,1 | 132   | 1,5 | 4     | 136,12 x 3,53      | •          | 10WTF-P 1300B-55/4470 |
| 135 | 147,2 | 8,1 | 137   | 1,5 | 4     | 139,29 x 3,53      |            | 10WTF-P 1350B-55/4470 |
| 140 | 156   | 9,5 | 142,5 | 1,5 | 5     | 145,42 x 5,34      |            | 10WTF-P 1400B-55/4470 |
| 150 | 166   | 9,5 | 152,5 | 1,5 | 5     | 158,12 x 5,34      | •          | 10WTF-P 1500B-55/4470 |
| 160 | 176   | 9,5 | 162,5 | 1,5 | 5     | 164,47 x 5,34      |            | 10WTF-P 1600B-55/4470 |
| 170 | 186   | 9,5 | 172,5 | 1,5 | 5     | 177,17 x 5,34      |            | 10WTF-P 1700B-55/4470 |
| 180 | 196   | 9,5 | 182,5 | 1,5 | 5     | 183,52 x 5,34      | •          | 10WTF-P 1800B-55/4470 |
| 190 | 206   | 9,5 | 192,5 | 1,5 | 5     | 196,22 x 5,34      |            | 10WTF-P 1900B-55/4470 |
| 200 | 216   | 9,5 | 202,5 | 1,5 | 5     | 202,57 x 5,34      |            | 10WTF-P 2000B-55/4470 |
| 210 | 226   | 9,5 | 212,5 | 1,5 | 5     | 215,27 x 5,34      | •          | 10WTF-P 2100B-55/4470 |
| 220 | 236   | 9,5 | 222,5 | 1,5 | 5     | 227,97 x 5,34      |            | 10WTF-P 2200B-55/4470 |
| 230 | 246   | 9,5 | 232,5 | 1,5 | 5     | 234,32 x 5,34      |            | 10WTF-P 2300B-55/4470 |
| 240 | 256   | 9,5 | 242,5 | 1,5 | 5     | 247,02 x 5,34      | •          | 10WTF-P 2400B-55/4470 |
| 250 | 266   | 9,5 | 252,5 | 1,5 | 5     | 253,37 x 5,34      |            | 10WTF-P 2500B-55/4470 |
| 260 | 276   | 9,5 | 262,5 | 1,5 | 5     | 266,07 x 5,34      |            | 10WTF-P 2600B-55/4470 |



**10WTF-P...B-55** wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side holds back the residual oil film passing the rod seal.

This wiper is composed of a dynamic PTFE ring with a scraper lip respectively sealing lip positioned back-to-back.

Compared to 10WTF...B-55, **10WTF-P...B-55** are more robust and used particularly for heavy-duty applications such as in construction machinery, presses, etc.

PTFE material assures low friction and high speed performance and has also **high compatibility** with nearly all media due to his chemical resistance which exceeds that of all other thermoplastics and elastomers.

The elastomer O-ring on the static side works as an energising ring and pressurises the scraper lips against the sliding surface and thereby can also compensate deflections of the piston rod.

If necessary, different O-ring materials can be chosen to suit the application.

The scraper is preferably used in conjunction with seals with a hydrodynamic **back-pumping function** or a drainage channel must be opened in this area.

#### Operating conditions see page 8

|             |                 |
|-------------|-----------------|
| Temperature | -30°C to 100°C  |
| Speed       | ≤ 15 m/s        |
| Fluids      | see pages 22-45 |

#### Materials see pages 10-19

|                           |      |
|---------------------------|------|
| Dynamic sealing element ① | PT55 |
| Energising element ②      | NBR  |

#### Assembly see pages 54-59

O-ring and PTFE-ring may easily be mounted into the grooved housing (above 30 mm)

#### Advantages

- High speed performance
- Low static and dynamic friction
- No stick-slip and extended service life
- Can compensate rod deflections
- Very good scraping effect against impurities and from the inside against the residual oil film
- High chemical compatibility with the right O-ring
- Large temperature range -50°C up to 200°C with the right O-ring

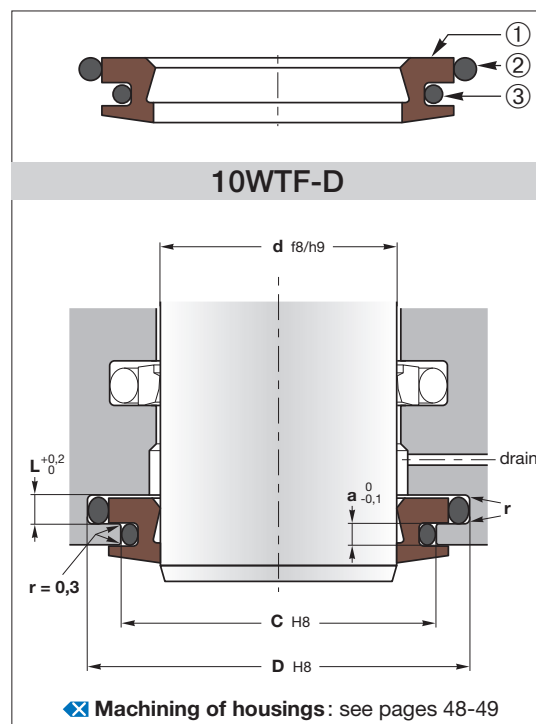
| d (mm)         |                | L<br>(mm) | D<br>(mm) | C<br>(mm) | a min.<br>(mm) | O-ring C/S<br>② |
|----------------|----------------|-----------|-----------|-----------|----------------|-----------------|
| Standard range | Extended range |           |           |           |                |                 |
| 19 → 39,9      | 19 → 100       | 4,2       | d + 7,6   | d + 1,5   | 3              | 2,62            |
| 40 → 69,9      | 30 → 200       | 6,3       | d + 8,8   | d + 1,5   | 3              | 2,62            |
| 70 → 139,9     | 70 → 350       | 8,1       | d + 12,2  | d + 2     | 4              | 3,53            |
| 140 → 399,9    | 100 → 650      | 9,5       | d + 16    | d + 2,5   | 5              | 5,34            |
| 400 → 649,9    | 200 → 650      | 14        | d + 24    | d + 2,5   | 8              | 7               |
| 650 → 999,9    | 400 → 999,9    | 16        | d + 27,3  | d + 2,5   | 10             | 8,4             |
| ≥ 1000         |                | 16        | d + 27,3  | d + 2,5   | 10             | 8,4             |

| d   | D   | L   | C     | r   | a min | O-ring<br>NBR 70 Sh A | ISO 6195/D | Reference             |
|-----|-----|-----|-------|-----|-------|-----------------------|------------|-----------------------|
| 270 | 286 | 9,5 | 272,5 | 1,5 | 5     | 278,77 x 5,34         |            | 10WTF-P 2700B-55/4470 |
| 280 | 296 | 9,5 | 282,5 | 1,5 | 5     | 291,47 x 5,34         |            | 10WTF-P 2800B-55/4470 |
| 300 | 316 | 9,5 | 302,5 | 1,5 | 5     | 304,17 x 5,34         |            | 10WTF-P 3000B-55/4470 |
| 320 | 336 | 9,5 | 322,5 | 1,5 | 5     | 329,57 x 5,34         |            | 10WTF-P 3200B-55/4470 |
| 330 | 346 | 9,5 | 332,5 | 1,5 | 5     | 329,57 x 5,34         |            | 10WTF-P 3300B-55/4470 |
| 350 | 366 | 9,5 | 352,5 | 1,5 | 5     | 354,97 x 5,34         |            | 10WTF-P 3500B-55/4470 |
| 360 | 376 | 9,5 | 362,5 | 1,5 | 5     | 366,34 x 5,34         |            | 10WTF-P 3600B-55/4470 |
| 380 | 396 | 9,5 | 382,5 | 1,5 | 5     | 380,37 x 5,34         |            | 10WTF-P 3800B-55/4470 |
| 400 | 424 | 14  | 402,5 | 1,5 | 8     | 405,26 x 7            |            | 10WTF-P 4000B-55/4470 |
| 530 | 554 | 14  | 532,5 | 1,5 | 8     | 532,26 x 7            |            | 10WTF-P 5300B-55/4470 |

Please contact us for applications approaching maximum values.

We stock and deliver the reference 17WE5 instead of reference 10WTF-C for rod diameters up to 32 mm included.  
On request we will produce the 10WTF-C references.

10WTF-P...B wipers with diameters between 20 and 1500 mm can be manufactured within short delivery time.  
For prices and availability: **www.sealtech-business.be**



This double-acting wiper has two different functions. **10WTF-D** prevents the introduction of foreign matter into the system and holds back the residual oil film passing the rod seal.

This wiper is composed of two PTFE wiper lips which assure low friction and high speed performance. The O-ring ② works as an energising ring and maintains the pressure of the wiper lips against the sliding surface.

The O-ring ③ works as a static seals and maintains the pressure of the outer lip against the sliding surface.

PTFE has also an excellent chemical resistance, which enables by changing the O-rings material (except mineral oils) the use with different type of oils.

In order to avoid any possible hydrodynamic pressure problems between the rod seal and the **10WTF-D**, it is preferably to use a rod seal with a hydrodynamic **back-pumping function**.

This wipers is generally used in heavily dirty environments because there is no dirt trapping due to the extended scraping lip.

#### Operating conditions ⚙️ see page 8

|             |                    |
|-------------|--------------------|
| Temperature | -30°C to 100°C     |
| Speed       | ≤ 5 m/s            |
| Fluids      | ⚙️ see pages 22-45 |

#### Materials ⚙️ see pages 10-19

|                                      |             |
|--------------------------------------|-------------|
| Dynamic sealing element ①            | PT55        |
| Energising element ②                 | NBR 70 Sh A |
| Static seal and energising element ③ | NBR 70 Sh A |

#### Assembly ⚙️ see pages 54-59

O-ring and PTFE-ring may easily be mounted into the grooved housing (above 30 mm)

#### Advantages

- Low static and dynamic friction
- No stick-slip
- Can compensate any rod deflections
- Very good scraping effect against impurities and from the inside against the residual oil film
- High chemical compatibility with the right O-rings
- Large temperature range -50°C up to 200°C with the right O-rings
- Extended service life

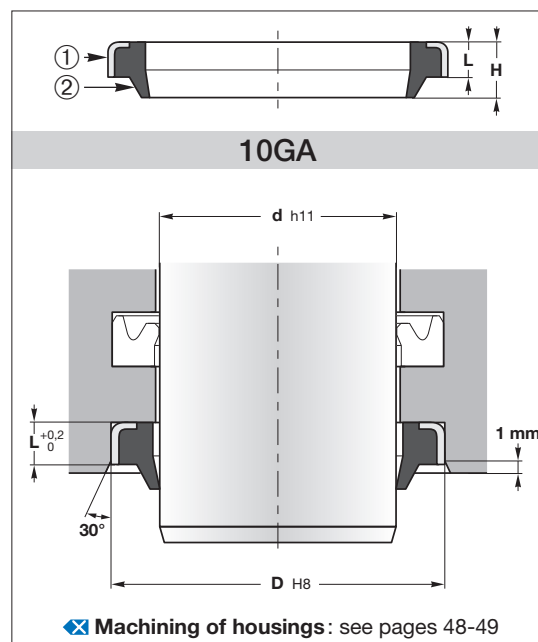
| d   | D     | L   | C     | r   | a   | O-ring ②<br>NBR 70 Sh A | O-ring ③<br>NBR 70 Sh A | Reference          |
|-----|-------|-----|-------|-----|-----|-------------------------|-------------------------|--------------------|
| 140 | 162,2 | 6,3 | 150,7 | 1,2 | 4,2 | 151,77 x 5,34           | 142,47 x 3,53           | <b>10WTF-D 140</b> |
| 160 | 182,2 | 6,3 | 170,7 | 1,2 | 4,2 | 170,82 x 5,34           | 164,69 x 3,53           | <b>10WTF-D 160</b> |
| 180 | 202,2 | 6,3 | 190,7 | 1,2 | 4,2 | 189,87 x 5,34           | 183,74 x 3,53           | <b>10WTF-D 180</b> |
| 200 | 222,2 | 6,3 | 210,7 | 1,2 | 4,2 | 215,27 x 5,34           | 202,79 x 3,53           | <b>10WTF-D 200</b> |
| 220 | 242,2 | 6,3 | 230,7 | 1,2 | 4,2 | 234,32 x 5,34           | 221,84 x 3,53           | <b>10WTF-D 220</b> |
| 250 | 274,2 | 6,3 | 260,7 | 1,2 | 4,2 | 266,07 x 5,34           | 253,59 x 3,53           | <b>10WTF-D 250</b> |
| 280 | 304,2 | 6,3 | 290,7 | 1,2 | 4,2 | 291,47 x 5,34           | 291,69 x 3,53           | <b>10WTF-D 280</b> |
| 320 | 353   | 8,1 | 335,1 | 1,2 | 6,3 | 342,47 x 7              | 329,57 x 5,34           | <b>10WTF-D 320</b> |
| 360 | 393   | 8,1 | 375,1 | 1,2 | 6,3 | 380,37 x 7              | 354,97 x 5,34           | <b>10WTF-D 360</b> |

| d (mm)         |                | L<br>(mm) | D<br>(mm) | C<br>(mm) | a<br>(mm) | r<br>(mm) | O-ring C/S<br>② | O-ring C/S<br>③ |
|----------------|----------------|-----------|-----------|-----------|-----------|-----------|-----------------|-----------------|
| Standard range | Extended range |           |           |           |           |           |                 |                 |
| 140 → 229,9    | 100 → 450      | 6,3       | d + 22,2  | d + 10,7  | 4,2       | 1,2       | 5,34            | 3,53            |
| 230 → 299,9    | 220 → 450      | 6,3       | d + 24,2  | d + 10,7  | 4,2       | 1,2       | 5,34            | 3,53            |
| 300 → 629,9    | 250 → 650      | 8,1       | d + 33    | d + 15,1  | 6,3       | 1,2       | 7               | 5,34            |
| 630 → 999,9    | 550 → 999,9    | 9,5       | d + 36,5  | d + 15,1  | 6,3       | 2         | 8,4             | 5,34            |



10GA

## Standard NBR wiper for open groove


**SEALTECH**  
Hydraulic Seals Technology


**10GA** is a single-acting elastomer wiper with an external metal cage for open groove assembly. The metal cage has to be pressed into the groove.

The function of **10GA** wiper is to prevent introduction of dust, dirt and foreign matter into the system, to protect the guiding parts and to extend the service life of the rod seal. The nitrile elastomer wiper lip produces an effective cleaning action to avoid damage to all internal components.

### Operating conditions see page 8

|             |                 |
|-------------|-----------------|
| Temperature | -30°C to 100°C  |
| Speed       | ≤ 0,8 m/s       |
| Fluids      | see pages 22-45 |

### Materials see pages 10-19

|              |              |
|--------------|--------------|
| Metal cage ① | Carbon steel |
| Wiper ②      | NBR 90 Sh A  |

### Assembly see pages 54-59

Must be pressed in an open housing

### Advantages

- External press-fitting for a good housing protection
- Space-saving construction
- Good price-performance ratio
- Small housing
- Simple groove construction
- Easy installation especially with small diameters

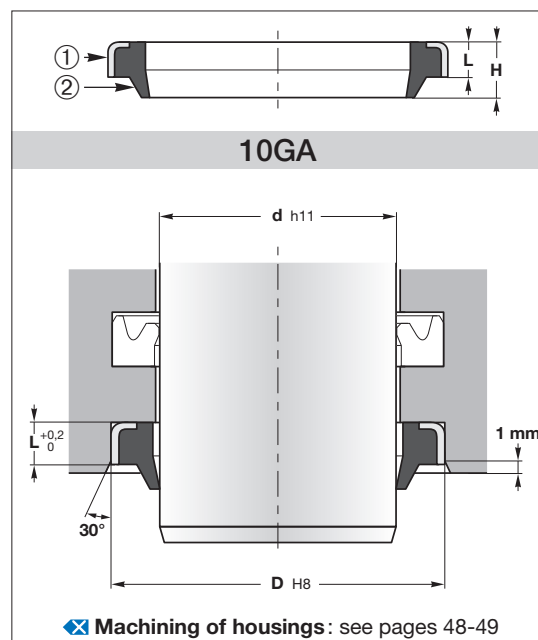
**Please contact us for applications approaching maximum values.**

### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

| d  | D    | L   | H   | ISO 6195/B | Reference   |
|----|------|-----|-----|------------|-------------|
| 6  | 13   | 3   | 4,5 |            | 10GA 0613/3 |
| 8  | 15   | 3   | 5   |            | 10GA 0815/3 |
| 10 | 16   | 3   | 4,5 |            | 10GA 1016/3 |
|    | 18   | 5   | 8   |            | 10GA 1018/5 |
|    | 18,9 | 2,9 | 5   |            | 10GA 1019/3 |
|    | 20   | 5   | 8   |            | 10GA 1020/5 |
| 12 | 18   | 3,5 | 5   |            | 10GA 1218/3 |
|    | 20   | 4   | 6   |            | 10GA 1220/4 |
|    | 22   | 5   | 8   |            | 10GA 1222/5 |
| 14 | 20   | 3   | 4,5 |            | 10GA 1420/3 |
|    | 22   | 3   | 4   |            | 10GA 1422/3 |
|    | 25   | 5   | 8   |            | 10GA 1425/5 |
| 15 | 21   | 3,5 | 5   |            | 10GA 1521/3 |
|    | 25   | 5   | 8   |            | 10GA 1525/5 |
| 16 | 22   | 3   | 4   |            | 10GA 1622/3 |
|    | 24   | 5   | 8   |            | 10GA 1624/5 |
|    | 26   | 5   | 8   |            | 10GA 1626/5 |
| 18 | 28   | 5   | 7   |            | 10GA 1828/5 |
|    | 28   | 7   | 10  | •          | 10GA 1828/7 |
| 20 | 26   | 3,5 | 5   |            | 10GA 2026/3 |
|    | 28   | 3,5 | 5   |            | 10GA 2028/3 |
|    | 28   | 5   | 7   |            | 10GA 2028/5 |
|    | 30   | 4   | 6   |            | 10GA 2030/4 |
|    | 30   | 5   | 8   |            | 10GA 2030/5 |
|    | 30   | 7   | 10  | •          | 10GA 2030/7 |
|    | 35   | 7   | 10  |            | 10GA 2035/7 |
| 22 | 28   | 5   | 9   |            | 10GA 2228/5 |
|    | 30   | 4   | 7   |            | 10GA 2230/4 |
|    | 32   | 5   | 7   |            | 10GA 2232/5 |
|    | 32   | 7   | 10  | •          | 10GA 2232/7 |
|    | 35   | 5   | 8   |            | 10GA 2235/5 |
| 24 | 32   | 5   | 7   |            | 10GA 2432/5 |
| 25 | 32   | 5   | 7   |            | 10GA 2532/5 |
|    | 35   | 5   | 8   |            | 10GA 2535/5 |
|    | 35   | 7   | 10  | •          | 10GA 2535/7 |
| 28 | 38   | 5   | 8   |            | 10GA 2838/5 |
|    | 38   | 7   | 10  | •          | 10GA 2838/7 |
|    | 40   | 7   | 10  |            | 10GA 2840/7 |

| d  | D    | L | H  | ISO 6195/B | Reference   |
|----|------|---|----|------------|-------------|
| 30 | 36   | 5 | 8  |            | 10GA 3036/5 |
|    | 40   | 5 | 8  |            | 10GA 3040/5 |
|    | 40   | 7 | 10 |            | 10GA 3040/7 |
|    | 45   | 5 | 8  |            | 10GA 3045/5 |
| 32 | 40   | 4 | 7  |            | 10GA 3240/4 |
|    | 42   | 5 | 7  |            | 10GA 3242/5 |
|    | 42   | 7 | 10 |            | 10GA 3242/7 |
|    | 45   | 4 | 8  |            | 10GA 3245/4 |
|    | 45   | 5 | 7  |            | 10GA 3245/5 |
|    | 45   | 7 | 10 |            | 10GA 3245/7 |
| 33 | 43   | 5 | 8  |            | 10GA 3343/5 |
| 35 | 45   | 5 | 8  |            | 10GA 3545/5 |
|    | 45   | 7 | 10 |            | 10GA 3545/7 |
|    | 47   | 7 | 10 |            | 10GA 3547/7 |
| 36 | 45   | 7 | 10 |            | 10GA 3645/7 |
|    | 46   | 5 | 8  |            | 10GA 3646/5 |
|    | 46   | 7 | 10 | •          | 10GA 3646/7 |
| 37 | 47   | 5 | 8  |            | 10GA 3747/5 |
| 38 | 48   | 7 | 10 |            | 10GA 3848/7 |
| 40 | 46   | 5 | 8  |            | 10GA 4046/5 |
|    | 50   | 5 | 8  |            | 10GA 4050/5 |
|    | 50   | 7 | 10 | •          | 10GA 4050/7 |
|    | 52   | 5 | 8  |            | 10GA 4052/5 |
| 42 | 52   | 7 | 10 |            | 10GA 4252/7 |
| 45 | 53,5 | 5 | 8  |            | 10GA 4553/5 |
|    | 55   | 5 | 8  |            | 10GA 4555/5 |
|    | 55   | 7 | 10 | •          | 10GA 4555/7 |
|    | 60   | 7 | 10 |            | 10GA 4560/7 |
| 48 | 60   | 7 | 10 |            | 10GA 4860/7 |
| 50 | 56   | 5 | 8  |            | 10GA 5056/5 |
|    | 60   | 5 | 8  |            | 10GA 5060/5 |
|    | 60   | 7 | 10 | •          | 10GA 5060/7 |
|    | 65   | 5 | 8  |            | 10GA 5065/5 |
|    | 65   | 7 | 10 |            | 10GA 5065/7 |
| 52 | 62   | 7 | 10 |            | 10GA 5262/7 |



**10GA** is a single-acting elastomer wiper with an external metal cage for open groove assembly. The metal cage has to be pressed into the groove.

The function of **10GA** wiper is to prevent introduction of dust, dirt and foreign matter into the system, to protect the guiding parts and to extend the service life of the rod seal. The nitrile elastomer wiper lip produces an effective cleaning action to avoid damage to all internal components.

#### Operating conditions see page 8

Temperature -30°C to 100°C  
Speed ≤ 0,8 m/s  
Fluids  see pages 22-45

#### Materials see pages 10-19

Metal cage ① Carbon steel  
Wiper ② NBR 90 Sh A

#### Assembly see pages 54-59

Must be pressed in an open housing

#### Advantages

External press-fitting for a good housing protection  
Space-saving construction  
Good price-performance ratio  
Small housing  
Simple groove construction  
Easy installation especially with small diameters

**Please contact us for applications approaching maximum values.**

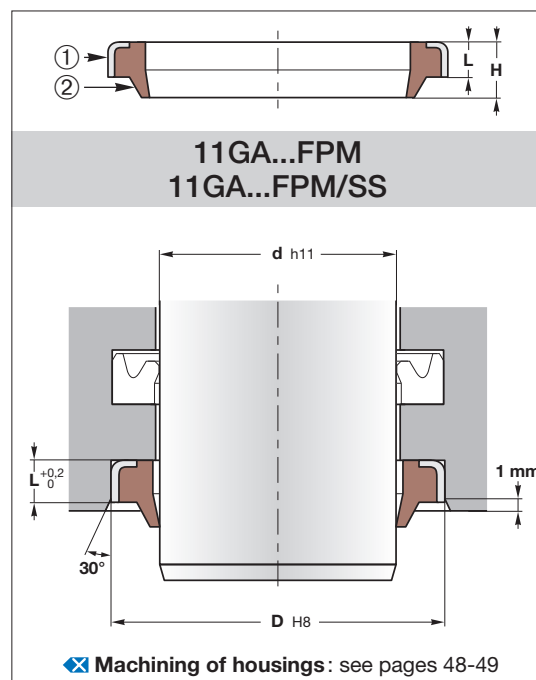
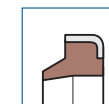
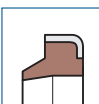
#### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

| d   | D   | L  | H  | ISO 6195/B | Reference     |
|-----|-----|----|----|------------|---------------|
| 55  | 63  | 7  | 10 |            | 10GA 5563/7   |
|     | 65  | 5  | 8  |            | 10GA 5565/5   |
|     | 65  | 7  | 10 |            | 10GA 5565/7   |
|     | 70  | 7  | 10 |            | 10GA 5570/7   |
| 56  | 80  | 5  | 8  |            | 10GA 5580/5   |
|     | 65  | 7  | 10 |            | 10GA 5665/7   |
|     | 66  | 5  | 8  |            | 10GA 5666/5   |
|     | 66  | 7  | 10 | •          | 10GA 5666/7   |
| 60  | 70  | 5  | 7  |            | 10GA 6070/5   |
|     | 70  | 7  | 10 |            | 10GA 6070/7   |
|     | 74  | 5  | 8  |            | 10GA 6074/5   |
|     | 75  | 7  | 10 |            | 10GA 6075/7   |
| 63  | 80  | 7  | 10 |            | 10GA 6080/7   |
|     | 73  | 7  | 10 |            | 10GA 6373/7   |
|     | 75  | 7  | 10 |            | 10GA 6375/7   |
|     | 83  | 5  | 8  |            | 10GA 6383/5   |
| 65  | 75  | 7  | 10 |            | 10GA 6575/7   |
|     | 70  | 80 | 5  | 7          | 10GA 7080/5   |
| 70  | 80  | 7  | 10 | •          | 10GA 7080/7   |
|     | 75  | 85 | 7  | 10         | 10GA 7585/7   |
| 75  | 87  | 5  | 7  |            | 10GA 7587/5   |
|     | 80  | 90 | 7  | 10         | • 10GA 8090/7 |
| 84  | 94  | 5  | 8  |            | 10GA 8494/5   |
| 85  | 95  | 7  | 10 |            | 10GA 8595/7   |
| 90  | 100 | 5  | 7  |            | 10GA 90100/5  |
|     | 100 | 7  | 10 | •          | 10GA 90100/7  |
| 95  | 105 | 7  | 10 |            | 10GA 95105/7  |
| 100 | 110 | 5  | 7  |            | 10GA 100110/5 |
|     | 110 | 7  | 10 |            | 10GA 100110/7 |
|     | 115 | 8  | 11 |            | 10GA 100115/8 |

| d     | D      | L    | H    | ISO 6195/B | Reference      |
|-------|--------|------|------|------------|----------------|
| 105   | 115    | 7    | 10   |            | 10GA 105115/7  |
| 110   | 120    | 7    | 10   | •          | 10GA 110120/7  |
|       | 125    | 9    | 12   |            | 10GA 110125/9  |
| 115   | 125    | 7    | 10   |            | 10GA 115125/7  |
| 120   | 130    | 7    | 10   |            | 10GA 120130/7  |
| 123   | 147    | 9    | 12   |            | 10GA 123147/9  |
| 125   | 135    | 7    | 10   |            | 10GA 125135/7  |
|       | 140    | 7    | 10   |            | 10GA 125140/7  |
|       | 140    | 9    | 12   | •          | 10GA 125140/9  |
| 130   | 145    | 9    | 12   |            | 10GA 130145/9  |
| 135   | 145    | 7    | 10   |            | 10GA 135145/7  |
|       | 150    | 9    | 10   |            | 10GA 135150/9  |
| 140   | 150    | 7    | 10   |            | 10GA 140150/7  |
|       | 155    | 9    | 12   | •          | 10GA 140155/9  |
| 150   | 165    | 9    | 12   |            | 10GA 150165/9  |
|       | 166    | 8    | 12   |            | 10GA 150166/8  |
| 152,4 | 171,45 | 5,26 | 12,7 |            | 10GA 152171/5  |
| 160   | 175    | 9    | 12   | •          | 10GA 160175/9  |
| 170   | 185    | 10   | 14   |            | 10GA 170185/10 |
| 180   | 195    | 10   | 14   |            | 10GA 180195/10 |
| 200   | 220    | 12   | 16   |            | 10GA 200220/12 |
| 210   | 230    | 12   | 16   |            | 10GA 210230/12 |
| 220   | 240    | 12   | 16   |            | 10GA 220240/12 |





**11GA...FPM** is a single-acting elastomer wiper with an external metal cage for open groove assembly. The metal cage has to be pressed into the groove.

The function of **11GA...FPM** wiper is to prevent introduction of dust, dirt and foreign matter into the system, to protect the guiding parts and thereby to extend the service life of the rod seal. The elastomer wiper lip produces an effective cleaning action to avoid damage to all internal components.

The elastomer material used for this wiper is a fluorocarbon elastomer, especially suited for processes at higher temperatures. While also having **better resistance** to a wide range of more aggressive fuels and chemicals, its mechanical properties are not that good. (f.ex. compression set)

#### Operating conditions

✕ see page 8

Temperature -10°C to 180°C  
Speed ≤ 0,8 m/s  
Fluids ✕ see pages 22-45

#### Materials

✕ see pages 10-19

Metal cage ①  
**11GA...FPM** Carbon steel  
**11GA...FPM/SS** Stainless steel  
Wiper ② FPM

#### Assembly

✕ see pages 54-59

Must be pressed in an open housing

#### Advantages

External press-fitting for a good housing protection  
Space-saving construction  
Good price-performance ratio  
Small housing  
Simple groove construction  
Up to 180°C  
Resistant to aggressive fuels and chemicals  
Easy installation especially with small diameters

**Please contact us for applications approaching maximum values.**

#### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

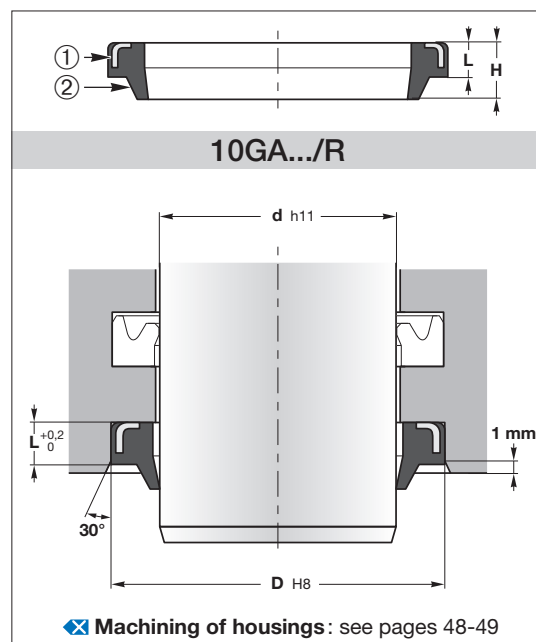
| d  | D  | L   | H  | ISO 6195/B | Reference          |
|----|----|-----|----|------------|--------------------|
| 12 | 20 | 4   | 6  |            | 11GA 1220/4 FPM/SS |
| 16 | 22 | 3   | 4  |            | 11GA 1622/3 FPM    |
|    | 22 | 3   | 4  |            | 11GA 1622/3 FPM/SS |
| 20 | 28 | 3,5 | 5  |            | 11GA 2028/3 FPM    |
|    | 28 | 3,5 | 5  |            | 11GA 2028/3 FPM/SS |
|    | 30 | 4   | 6  |            | 11GA 2030/4 FPM    |
|    | 30 | 7   | 10 | •          | 11GA 2030/7 FPM    |
| 22 | 28 | 5   | 9  |            | 11GA 2228/5 FPM    |
|    | 32 | 7   | 10 | •          | 11GA 2232/7 FPM    |
| 25 | 35 | 5   | 8  |            | 11GA 2535/5 FPM    |
|    | 35 | 7   | 10 |            | 11GA 2535/7 FPM    |
|    | 35 | 7   | 10 | •          | 11GA 2535/7 FPM/SS |
| 28 | 38 | 5   | 8  |            | 11GA 2838/5 FPM    |
|    | 40 | 7   | 10 |            | 11GA 2840/7 FPM    |
| 30 | 40 | 5   | 8  |            | 11GA 3040/5 FPM    |
|    | 40 | 7   | 10 |            | 11GA 3040/7 FPM    |
| 32 | 45 | 4   | 8  |            | 11GA 3245/4 FPM    |
|    | 45 | 7   | 10 |            | 11GA 3245/7 FPM    |
| 35 | 45 | 7   | 10 | •          | 11GA 3545/7 FPM    |
| 36 | 45 | 7   | 10 |            | 11GA 3645/7 FPM    |
| 40 | 50 | 5   | 8  |            | 11GA 4050/5 FPM    |
|    | 50 | 7   | 10 | •          | 11GA 4050/7 FPM    |

| d   | D   | L | H  | ISO 6195/B | Reference         |
|-----|-----|---|----|------------|-------------------|
| 45  | 55  | 7 | 10 | •          | 11GA 4555/7 FPM   |
|     | 60  | 7 | 10 |            | 11GA 4560/7 FPM   |
| 50  | 56  | 5 | 8  |            | 11GA 5056/5 FPM   |
|     | 60  | 5 | 8  |            | 11GA 5060/5 FPM   |
|     | 60  | 7 | 10 | •          | 11GA 5060/7 FPM   |
| 55  | 65  | 7 | 10 |            | 11GA 5565/7 FPM   |
| 56  | 66  | 7 | 10 |            | 11GA 5666/7 FPM   |
| 60  | 70  | 7 | 10 |            | 11GA 6070/7 FPM   |
| 63  | 75  | 7 | 10 |            | 11GA 6375/7 FPM   |
| 65  | 75  | 7 | 10 |            | 11GA 6575/7 FPM   |
| 70  | 80  | 7 | 10 | •          | 11GA 7080/7 FPM   |
| 80  | 90  | 7 | 10 | •          | 11GA 8090/7 FPM   |
| 85  | 95  | 7 | 10 |            | 11GA 8595/7 FPM   |
| 90  | 100 | 7 | 10 | •          | 11GA 90100/7 FPM  |
| 100 | 110 | 7 | 10 |            | 11GA 100110/7 FPM |
| 110 | 120 | 7 | 10 |            | 11GA 110120/7 FPM |
| 120 | 130 | 7 | 10 |            | 11GA 120130/7 FPM |



10GA.../R

## NBR wiper with internal metal cage for open groove



**10GA.../R** is a single-acting elastomer wiper with a metal ring which is vulcanised into the elastomer body. The wiper has to be pressed into the open groove.

The function of **10GA.../R** wiper is to prevent introduction of dust, dirt and foreign matter into the system, to protect the guiding parts and to extend the service life of the rod seal. The nitrile elastomer wiper lip produces an effective cleaning action to avoid damage to all internal components.

### Operating conditions see page 8

|             |                 |
|-------------|-----------------|
| Temperature | -30°C to 100°C  |
| Speed       | ≤ 0,8 m/s       |
| Fluids      | see pages 22-45 |

### Materials see pages 10-19

|              |              |
|--------------|--------------|
| Metal cage ① | Carbon steel |
| Wiper ②      | NBR          |

### Assembly see pages 54-59

Must be pressed in an open housing

### Advantages

- External press-fitting for a good housing protection
- Space-saving construction
- Good price-performance ratio
- Small housing
- Simple groove construction
- Metal ring protected against corrosive media
- Easy installation especially with small diameters

**Please contact us for applications approaching maximum values.**

### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.



**SEALTECH**  
Hydraulic Seals Technology



| d  | D  | L   | H  | ISO 6195/B | Reference     |
|----|----|-----|----|------------|---------------|
| 8  | 14 | 3,5 | 5  |            | 10GA 0814/3/R |
| 12 | 18 | 3,5 | 5  |            | 10GA 1218/3/R |
| 14 | 20 | 3,5 | 5  |            | 10GA 1420/3/R |
| 15 | 21 | 3,5 | 5  |            | 10GA 1521/3/R |
| 16 | 22 | 3,5 | 5  |            | 10GA 1622/3/R |
| 18 | 28 | 5   | 7  |            | 10GA 1828/5/R |
| 20 | 30 | 5   | 7  |            | 10GA 2030/5/R |
| 22 | 32 | 5   | 7  |            | 10GA 2232/5/R |
| 25 | 35 | 5   | 7  |            | 10GA 2535/5/R |
|    | 35 | 7   | 10 |            | 10GA 2535/7/R |
| 28 | 38 | 5   | 7  |            | 10GA 2838/5/R |
| 30 | 40 | 5   | 7  |            | 10GA 3040/5/R |
|    | 40 | 7   | 10 |            | 10GA 3040/7/R |
| 32 | 42 | 5   | 7  |            | 10GA 3242/5/R |
| 35 | 45 | 7   | 10 |            | 10GA 3545/7/R |
| 36 | 46 | 5   | 7  |            | 10GA 3646/5/R |
| 40 | 50 | 5   | 8  |            | 10GA 4050/5/R |

| d   | D   | L | H  | ISO 6195/B | Reference       |
|-----|-----|---|----|------------|-----------------|
| 42  | 52  | 5 | 7  |            | 10GA 4252/5/R   |
|     | 52  | 7 | 10 |            | 10GA 4252/7/R   |
| 45  | 55  | 5 | 7  |            | 10GA 4555/5/R   |
| 50  | 60  | 5 | 7  |            | 10GA 5060/5/R   |
| 55  | 65  | 5 | 7  |            | 10GA 5565/5/R   |
| 56  | 66  | 5 | 7  |            | 10GA 5666/5/R   |
| 60  | 70  | 5 | 7  |            | 10GA 6070/5/R   |
| 63  | 73  | 5 | 7  |            | 10GA 6373/5/R   |
| 65  | 75  | 5 | 7  |            | 10GA 6575/5/R   |
| 70  | 80  | 5 | 7  |            | 10GA 7080/5/R   |
| 75  | 83  | 7 | 10 |            | 10GA 7583/7/R   |
|     | 85  | 7 | 10 |            | 10GA 7585/7/R   |
| 80  | 88  | 7 | 10 |            | 10GA 8088/7/R   |
|     | 90  | 7 | 10 | •          | 10GA 8090/7/R   |
| 85  | 95  | 7 | 10 |            | 10GA 8595/7/R   |
| 100 | 110 | 7 | 10 | •          | 10GA 100110/7/R |
|     | 120 | 7 | 10 |            | 10GA 100120/7/R |
| 140 | 155 | 9 | 12 | •          | 10GA 140155/9/R |
| 160 | 175 | 9 | 12 | •          | 10GA 160175/9/R |

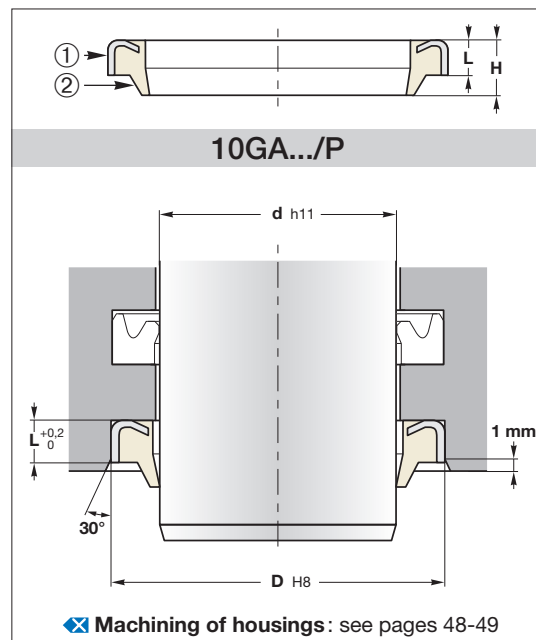


10GA.../P

## PU wiper with metal cage for open groove



**SEALTECH**  
Hydraulic Seals Technology



**10GA.../P** is a single-acting PU wiper with an external metal cage for open groove assembly. The metal cage has to be pressed into the groove.

The function of this wiper is to prevent introduction of dust, dirt and foreign matter into the system, to protect the guiding parts and to extend the service life of the rod seal. The wiper lip produces an effective cleaning action to avoid damage to all internal components.

Wiper **10GA.../P** are well suited for applications in mobile hydraulic systems for heavy duty operation.

This wiper is produced in polyurethane which ensures increased **wear resistance** and an extended service life due to good resistance against weathering.

### Operating conditions

⊗ see page 8

|             |                   |
|-------------|-------------------|
| Temperature | -30°C to 100°C    |
| Speed       | ≤ 0,8 m/s         |
| Fluids      | ⊗ see pages 22-45 |

### Materials

⊗ see pages 10-19

|              |                  |
|--------------|------------------|
| Metal cage ① | Galvanised steel |
| Wiper ②      | PU15             |

### Assembly

⊗ see pages 54-59

Must be pressed in an open housing

### Advantages

- External press-fitting for a good housing protection
- Space-saving construction
- Good price-performance ratio
- Small housing
- Simple groove construction
- Excellent abrasion resistance
- Extended service life
- For earth moving machines and difficult working conditions
- Easy installation especially with small diameters

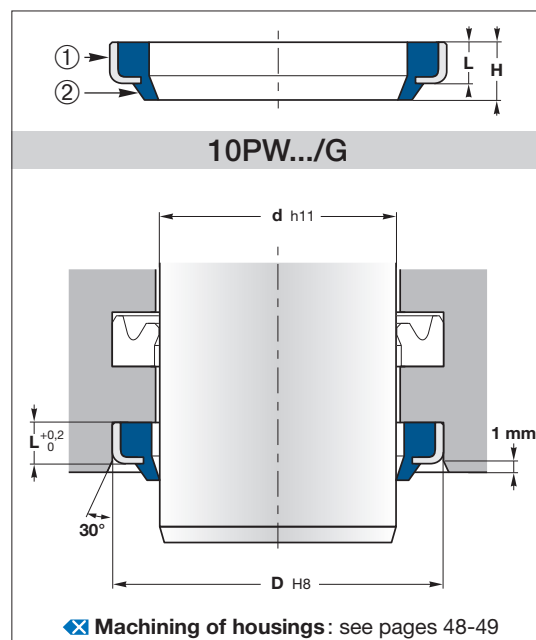
**Please contact us for applications approaching maximum values.**

### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

| d  | D  | L | H  | ISO 6195/A | Reference     |
|----|----|---|----|------------|---------------|
| 12 | 20 | 4 | 6  |            | 10GA 1220/4/P |
| 16 | 22 | 3 | 4  |            | 10GA 1622/3/P |
| 20 | 30 | 7 | 10 | •          | 10GA 2030/7/P |
| 25 | 35 | 5 | 7  |            | 10GA 2535/5/P |
|    | 35 | 7 | 10 | •          | 10GA 2535/7/P |
| 28 | 38 | 7 | 10 |            | 10GA 2838/7/P |
| 30 | 40 | 5 | 7  |            | 10GA 3040/5/P |
|    | 40 | 7 | 10 |            | 10GA 3040/7/P |
| 32 | 42 | 7 | 10 |            | 10GA 3242/7/P |
| 35 | 45 | 5 | 7  |            | 10GA 3545/5/P |
|    | 45 | 7 | 10 |            | 10GA 3545/7/P |
| 36 | 45 | 7 | 10 |            | 10GA 3645/7/P |
|    | 46 | 4 | 10 | •          | 10GA 3646/7/P |
| 40 | 50 | 5 | 7  |            | 10GA 4050/5/P |
|    | 50 | 7 | 10 | •          | 10GA 4050/7/P |
| 45 | 55 | 5 | 7  |            | 10GA 4555/5/P |
|    | 55 | 7 | 10 | •          | 10GA 4555/7/P |
|    | 60 | 7 | 10 |            | 10GA 4560/7/P |
| 50 | 60 | 5 | 7  |            | 10GA 5060/5/P |
|    | 60 | 7 | 10 | •          | 10GA 5060/7/P |
| 55 | 65 | 5 | 7  |            | 10GA 5565/5/P |

| d   | D   | L | H  | ISO 6195/A | Reference       |
|-----|-----|---|----|------------|-----------------|
| 56  | 66  | 7 | 10 | •          | 10GA 5666/7/P   |
| 60  | 70  | 7 | 10 |            | 10GA 6070/7/P   |
| 63  | 75  | 7 | 10 |            | 10GA 6375/7/P   |
|     | 77  | 8 | 11 |            | 10GA 6377/8/P   |
| 65  | 75  | 7 | 10 |            | 10GA 6575/7/P   |
| 70  | 80  | 7 | 10 | •          | 10GA 7080/7/P   |
| 75  | 85  | 7 | 10 |            | 10GA 7585/7/P   |
| 80  | 90  | 7 | 10 | •          | 10GA 8090/7/P   |
| 85  | 95  | 7 | 10 |            | 10GA 8595/7/P   |
| 90  | 100 | 7 | 10 | •          | 10GA 90100/7/P  |
| 100 | 110 | 7 | 10 |            | 10GA 100110/7/P |
| 105 | 115 | 7 | 10 |            | 10GA 105115/7/P |
| 110 | 120 | 7 | 10 | •          | 10GA 110120/7/P |
| 115 | 125 | 7 | 10 |            | 10GA 115125/7/P |
| 120 | 130 | 7 | 10 |            | 10GA 120130/7/P |
| 125 | 140 | 9 | 12 | •          | 10GA 125140/9/P |
| 140 | 155 | 9 | 12 | •          | 10GA 140155/9/P |
| 180 | 195 | 9 | 12 |            | 10GA 180195/9/P |



**10PW.../G** is a single-acting PU wiper with an external metal cage for open groove assembly. The metal cage has to be pressed into the groove.

In this case, the PU ring is not firmly vulcanised onto the metal cage and can be replaced without disassembling the cage out of the housing.

The function of this wiper is to prevent introduction of dust, dirt and foreign matter into the system, to protect the guiding parts and thereby to extend the service life of the rod seal. The wiper lip produces an effective cleaning action to avoid damage to all internal components. This wiper is produced in polyurethane which ensures increased **wear resistance** and an extended service life due to good resistance against weathering.

#### Operating conditions

✕ see page 8

|             |                   |
|-------------|-------------------|
| Temperature | -30°C to 100°C    |
| Speed       | ≤ 0,5 m/s         |
| Fluids      | ✕ see pages 22-45 |

#### Materials

✕ see pages 10-19

|              |              |
|--------------|--------------|
| Metal cage ① | Carbon steel |
| Wiper ②      | PU10         |

#### Assembly

✕ see pages 54-59

Must be pressed in an open housing

#### Advantages

- External press-fitting for a good housing protection
- Space-saving construction
- Good price-performance ratio
- Small housing
- Simple groove construction
- Excellent abrasion resistance
- Extended service life
- Easy installation especially with small diameters

Please contact us for applications approaching maximum values.

#### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

| d   | D   | L   | H    | Reference   |
|-----|-----|-----|------|-------------|
| 14  | 22  | 4,5 | 6,5  | 10PW 14/G   |
| 15  | 25  | 5   | 7    | 10PW 15/1G  |
| 16  | 22  | 4,5 | 6,5  | 10PW 16/3G  |
|     | 24  | 4,5 | 6,5  | 10PW 16/G   |
|     | 26  | 5   | 7    | 10PW 16/1G  |
| 18  | 26  | 4,5 | 6,5  | 10PW 18/G   |
| 20  | 30  | 4   | 6    | 10PW 20/2G  |
|     | 30  | 7   | 10   | 10PW 20/1G  |
| 22  | 32  | 5   | 7    | 10PW 22/3G  |
| 25  | 35  | 5   | 7    | 10PW 25/3G  |
|     | 35  | 7   | 10   | 10PW 25/1G  |
| 28  | 40  | 7   | 10   | 10PW 28/1G  |
| 30  | 45  | 5   | 7    | 10PW 30/2G  |
| 32  | 44  | 7   | 10   | 10PW 32/5G  |
| 33  | 43  | 7   | 10   | 10PW 33/1G  |
| 35  | 47  | 7   | 10   | 10PW 35/G   |
| 40  | 50  | 5   | 7    | 10PW 40/2G  |
|     | 50  | 7   | 10   | 10PW 40/1G  |
| 45  | 57  | 7   | 10   | 10PW 45/G   |
|     | 60  | 7   | 10   | 10PW 50/1G  |
| 50  | 62  | 7   | 10   | 10PW 50/G   |
|     | 65  | 5   | 7    | 10PW 55/2G  |
|     | 65  | 7   | 10   | 10PW 55/1G  |
| 55  | 69  | 8   | 10,5 | 10PW 55/G   |
|     | 70  | 7   | 10   | 10PW 60/1G  |
| 60  | 74  | 8   | 10,5 | 10PW 60/G   |
|     | 84  | 8   | 10,5 | 10PW 70/3G  |
| 70  | 84  | 8   | 10,5 | 10PW 70/3G  |
| 80  | 90  | 7   | 10   | 10PW 80/1G  |
| 90  | 100 | 7   | 10   | 10PW 90/1G  |
| 100 | 114 | 8   | 10,5 | 10PW 100/G  |
| 125 | 140 | 9   | 12   | 10PW 125/1G |

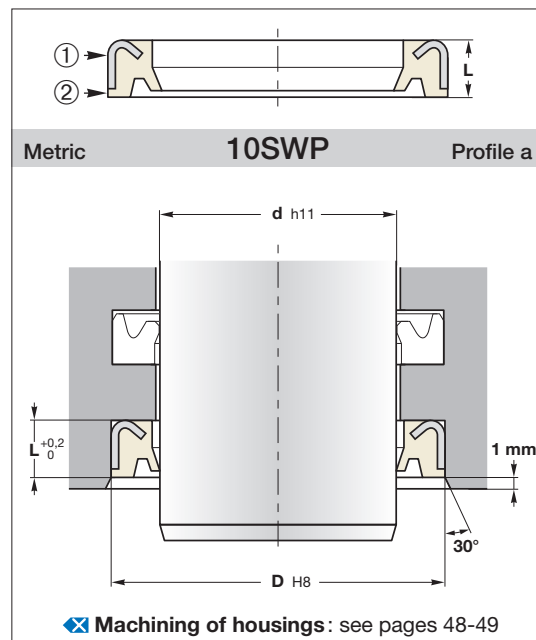


10SWP

## PU wiper with metal cage for open groove



**SEALTECH**  
Hydraulic Seals Technology



**10SWP** is a single-acting PU wiper with an external metal cage for open groove assembly. The metal cage has to be pressed into the groove.

The function of this wiper is to prevent introduction of dust, dirt and foreign matter into the system, to protect the guiding parts and thereby to extend the service life of the rod seal. The wiper lip produces an effective cleaning action to avoid damage to all internal components.

**10SWP** wiper are well suited for applications in mobile hydraulic systems for heavy duty operation.

Also produced in small dimensions (Profile b), they can be used as protection of bearings or other systems with swivel movements where reduced space is required.

This wiper is produced in polyurethane which ensures increased **wear resistance** and an extended service life due to good resistance against weathering.

### Operating conditions see page 8

|             |                 |
|-------------|-----------------|
| Temperature | -30°C to 100°C  |
| Speed       | ≤ 0,5 m/s       |
| Fluids      | see pages 22-45 |

### Materials see pages 10-19

|              |                  |
|--------------|------------------|
| Metal cage ① | Galvanised steel |
| Wiper ②      | PU14             |

### Assembly see pages 54-59

Must be pressed in an open housing

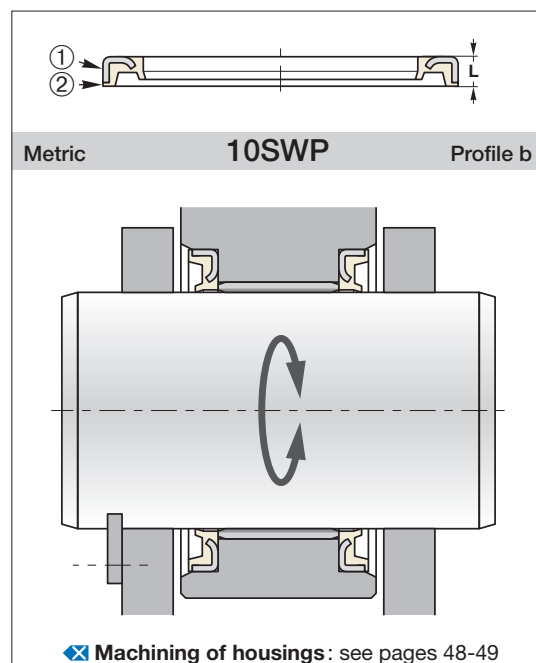
### Advantages

- External press-fitting for a good housing protection
- Space-saving construction
- Good price-performance ratio
- Small housing
- Simple groove construction
- Excellent abrasion resistance
- Extended service life
- For earth moving machines and difficult working conditions
- Easy installation especially with small diameters

**Please contact us for applications approaching maximum values.**

### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.



| d  | D  | L   | Reference    |
|----|----|-----|--------------|
| 20 | 28 | 5   | 10SWP 2028   |
| 25 | 35 | 4   | 10SWP 2535   |
|    | 37 | 6   | 10SWP 2537   |
|    | 38 | 7,5 | 10SWP 2538   |
| 30 | 40 | 4   | 10SWP 3040   |
|    | 43 | 7,5 | 10SWP 3043   |
| 35 | 45 | 4   | 10SWP 3545   |
|    | 45 | 5   | 10SWP 3545/1 |
|    | 47 | 7   | 10SWP 3547   |
|    | 50 | 7,5 | 10SWP 3550   |
| 36 | 48 | 6   | 10SWP 3648   |
| 38 | 50 | 7,5 | 10SWP 3850   |
| 40 | 50 | 4   | 10SWP 4050   |
|    | 52 | 7   | 10SWP 4052   |
| 42 | 52 | 7   | 10SWP 4252   |
| 45 | 55 | 4   | 10SWP 4555   |
|    | 55 | 3,2 | 10SWP 4555/1 |
|    | 55 | 6   | 10SWP 4555/2 |
|    | 57 | 7   | 10SWP 4557   |
|    | 60 | 7,5 | 10SWP 4560   |
|    | 60 | 5   | 10SWP 4560/1 |
| 50 | 60 | 4   | 10SWP 5060   |
|    | 60 | 7   | 10SWP 5060/1 |
|    | 60 | 5   | 10SWP 5060/2 |
|    | 62 | 7   | 10SWP 5062   |
|    | 63 | 4   | 10SWP 5063   |
|    | 63 | 8   | 10SWP 5063/1 |
|    | 65 | 7,5 | 10SWP 5065   |
|    | 65 | 5   | 10SWP 5065/1 |
| 55 | 65 | 3,2 | 10SWP 5565   |
|    | 65 | 4   | 10SWP 5565/1 |
|    | 68 | 4   | 10SWP 5568   |
|    | 69 | 8   | 10SWP 5569   |
|    | 70 | 7,5 | 10SWP 5570   |
|    | 70 | 5   | 10SWP 5570/1 |
| 56 | 70 | 7,5 | 10SWP 5670   |

| d    | D    | L   | Reference     |
|------|------|-----|---------------|
| 60   | 70   | 7   | 10SWP 6070    |
|      | 70   | 4   | 10SWP 6070/1  |
|      | 73   | 8   | 10SWP 6073    |
|      | 74   | 8   | 10SWP 6074    |
|      | 75   | 7,5 | 10SWP 6075    |
|      | 75   | 4   | 10SWP 6075/1  |
|      | 75   | 5   | 10SWP 6075/2  |
| 63   | 78   | 7,5 | 10SWP 6378    |
|      | 80   | 5   | 10SWP 6380    |
| 65   | 75   | 5   | 10SWP 6575    |
|      | 79   | 8   | 10SWP 6579    |
|      | 80   | 8   | 10SWP 6580    |
|      | 80   | 5   | 10SWP 6580/1  |
| 70   | 80   | 5   | 10SWP 7080    |
|      | 80   | 7   | 10SWP 7080/1  |
|      | 80   | 4   | 10SWP 7080/2  |
|      | 83   | 8   | 10SWP 7083    |
|      | 84   | 8   | 10SWP 7084    |
|      | 85   | 7,5 | 10SWP 7085    |
|      | 85   | 4   | 10SWP 7085/1  |
|      | 85   | 5   | 10SWP 7085/2  |
|      | 90   | 5   | 10SWP 7090    |
| 71   | 85   | 6   | 10SWP 7185    |
|      | 86   | 5   | 10SWP 7186    |
| 75   | 89   | 8   | 10SWP 7589    |
|      | 90   | 8   | 10SWP 7590    |
|      | 90   | 6   | 10SWP 7590/1  |
|      | 95   | 10  | 10SWP 7595    |
| 76,5 | 96,5 | 10  | 10SWP 7696    |
| 80   | 90   | 7   | 10SWP 8090    |
|      | 90   | 4,5 | 10SWP 8090/1  |
|      | 93   | 8   | 10SWP 8093    |
|      | 94   | 8   | 10SWP 8094    |
|      | 95   | 8   | 10SWP 8095    |
|      | 95   | 5   | 10SWP 8095/1  |
|      | 95   | 7,5 | 10SWP 8095/2  |
|      | 100  | 10  | 10SWP 80100   |
|      | 100  | 6   | 10SWP 80100/1 |



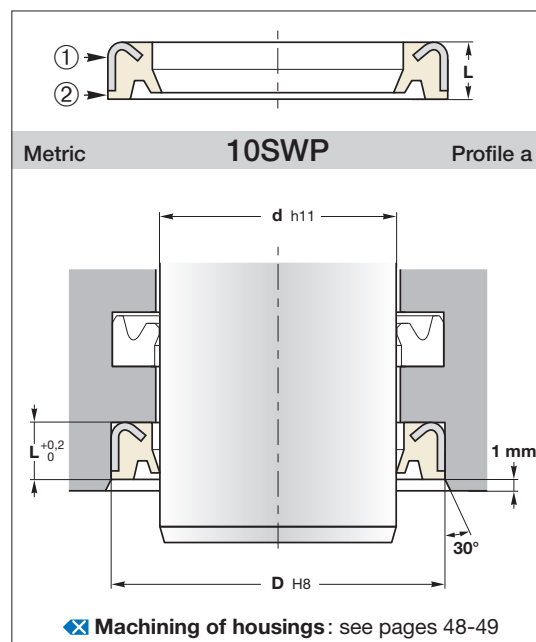


10SWP

## PU wiper with metal cage for open groove



**SEALTECH**  
Hydraulic Seals Technology



**10SWP** is a single-acting PU wiper with an external metal cage for open groove assembly. The metal cage has to be pressed into the groove.

The function of this wiper is to prevent introduction of dust, dirt and foreign matter into the system, to protect the guiding parts and thereby to extend the service life of the rod seal. The wiper lip produces an effective cleaning action to avoid damage to all internal components.

**10SWP** wiper are well suited for applications in mobile hydraulic systems for heavy duty operation.

Also produced in small dimensions (Profile b), they can be used as protection of bearings or other systems with swivel movements where reduced space is required.

This wiper is produced in polyurethane which ensures increased **wear resistance** and an extended service life due to good resistance against weathering.

### Operating conditions see page 8

|             |                                                                                                    |
|-------------|----------------------------------------------------------------------------------------------------|
| Temperature | -30°C to 100°C                                                                                     |
| Speed       | ≤ 0,5 m/s                                                                                          |
| Fluids      |  see pages 22-45 |

### Materials see pages 10-19

|              |                  |
|--------------|------------------|
| Metal cage ① | Galvanised steel |
| Wiper ②      | PU14             |

### Assembly see pages 54-59

Must be pressed in an open housing

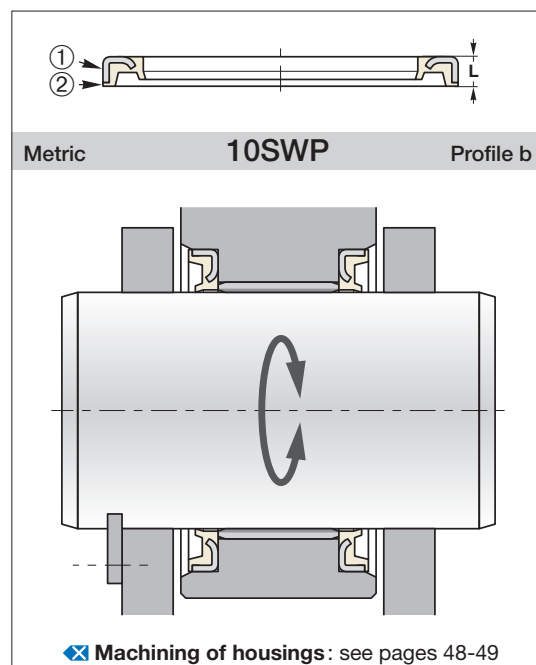
### Advantages

- External press-fitting for a good housing protection
- Space-saving construction
- Good price-performance ratio
- Small housing
- Simple groove construction
- Excellent abrasion resistance
- Extended service life
- For earth moving machines and difficult working conditions
- Easy installation especially with small diameters

**Please contact us for applications approaching maximum values.**

### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.



| d   | D   | L   | Reference      |
|-----|-----|-----|----------------|
| 85  | 99  | 8   | 10SWP 8599     |
|     | 100 | 10  | 10SWP 85100    |
|     | 100 | 4   | 10SWP 85100/1  |
|     | 100 | 8   | 10SWP 85100/2  |
| 90  | 100 | 6   | 10SWP 85100/3  |
|     | 105 | 10  | 10SWP 85105    |
|     | 100 | 7   | 10SWP 90100    |
|     | 104 | 8   | 10SWP 90104    |
| 95  | 105 | 6   | 10SWP 90105    |
|     | 105 | 5   | 10SWP 90105/1  |
|     | 105 | 8   | 10SWP 90105/2  |
|     | 110 | 10  | 10SWP 90110    |
| 100 | 109 | 8   | 10SWP 95109    |
|     | 110 | 8   | 10SWP 95110    |
|     | 110 | 6   | 10SWP 95110/1  |
|     | 115 | 10  | 10SWP 95115    |
| 105 | 110 | 7   | 10SWP 100110   |
|     | 114 | 8   | 10SWP 100114   |
|     | 115 | 7,5 | 10SWP 100115   |
|     | 115 | 6   | 10SWP 100115/1 |
| 110 | 115 | 4   | 10SWP 100115/2 |
|     | 115 | 5   | 10SWP 100115/3 |
|     | 120 | 10  | 10SWP 100120   |
|     | 120 | 7   | 10SWP 100120/1 |
| 115 | 120 | 7   | 10SWP 105120   |
|     | 120 | 8   | 10SWP 105120/1 |
|     | 121 | 9   | 10SWP 105121   |

| d   | D   | L   | Reference      |
|-----|-----|-----|----------------|
| 110 | 125 | 9   | 10SWP 110125   |
|     | 125 | 4   | 10SWP 110125/1 |
|     | 126 | 9   | 10SWP 110126   |
|     | 130 | 10  | 10SWP 110130   |
| 115 | 130 | 8   | 10SWP 115130   |
|     | 131 | 9   | 10SWP 115131   |
| 120 | 130 | 7   | 10SWP 120130   |
|     | 135 | 8   | 10SWP 120135   |
|     | 135 | 7   | 10SWP 120135/1 |
|     | 136 | 9   | 10SWP 120136   |
| 125 | 140 | 10  | 10SWP 120140   |
|     | 140 | 8   | 10SWP 120140/1 |
|     | 150 | 12  | 10SWP 120150   |
|     | 140 | 8   | 10SWP 125140   |
| 130 | 141 | 9   | 10SWP 125141   |
|     | 145 | 10  | 10SWP 125145   |
|     | 145 | 7,5 | 10SWP 130145   |
|     | 146 | 9   | 10SWP 130146   |
| 140 | 150 | 10  | 10SWP 130150   |
|     | 155 | 8   | 10SWP 140155   |
|     | 160 | 10  | 10SWP 140160   |
|     | 170 | 8   | 10SWP 140170   |
| 150 | 170 | 10  | 10SWP 150170   |
|     | 165 | 8   | 10SWP 160175   |
| 160 | 180 | 5   | 10SWP 160180   |
|     | 190 | 9   | 10SWP 160190   |
|     | 190 | 8   | 10SWP 170190   |
|     | 210 | 15  | 10SWP 180200   |
| 170 | 210 | 10  | 10SWP 190210   |
|     | 220 | 10  | 10SWP 200220   |
|     | 240 | 16  | 10SWP 220240   |

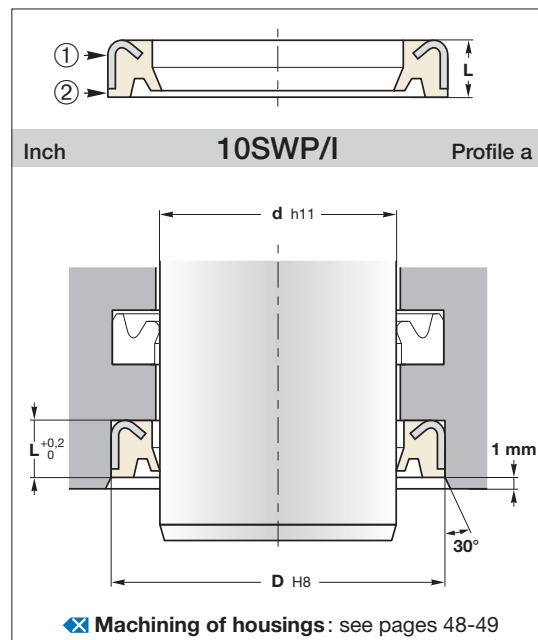


10SWP/I

## PU wiper with metal cage for open groove Inch dimensions



**SEALTECH**  
Hydraulic Seals Technology



**10SWP/I** is a single-acting PU wiper with an external metal cage for open groove assembly. The metal cage has to be pressed into the groove.

The function of this wiper is to prevent introduction of dust, dirt and foreign matter into the system, to protect the guiding parts and thereby to extend the service life of the rod seal. The wiper lip produces an effective cleaning action to avoid damage to all internal components.

**10SWP/I** wiper are well suited for applications in mobile hydraulic systems for heavy duty operation.

Also produced in small dimensions (Profile b), they can be used as protection of bearings or other systems with swivel movements where reduced space is required.

This wiper is produced in polyurethane which ensures increased **wear resistance** and an extended service life due to good resistance against weathering.

### Operating conditions see page 8

|             |                                                                                                    |
|-------------|----------------------------------------------------------------------------------------------------|
| Temperature | -30°C to 100°C                                                                                     |
| Speed       | ≤ 0,5 m/s                                                                                          |
| Fluids      |  see pages 22-45 |

### Materials see pages 10-19

|              |                  |
|--------------|------------------|
| Metal cage ① | Galvanised steel |
| Wiper ②      | PU14             |

### Assembly see pages 54-59

Must be pressed in an open housing

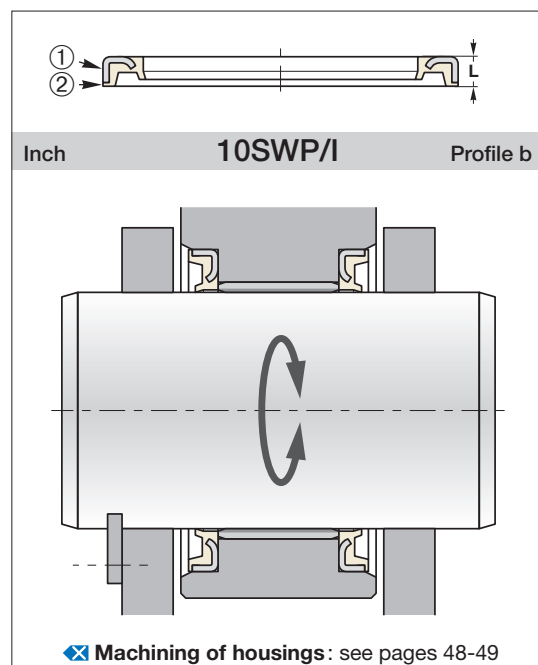
### Advantages

- External press-fitting for a good housing protection
- Space-saving construction
- Good price-performance ratio
- Small housing
- Simple groove construction
- Excellent abrasion resistance
- Extended service life
- For earth moving machines and difficult working conditions
- Easy installation especially with small diameters

**Please contact us for applications approaching maximum values.**

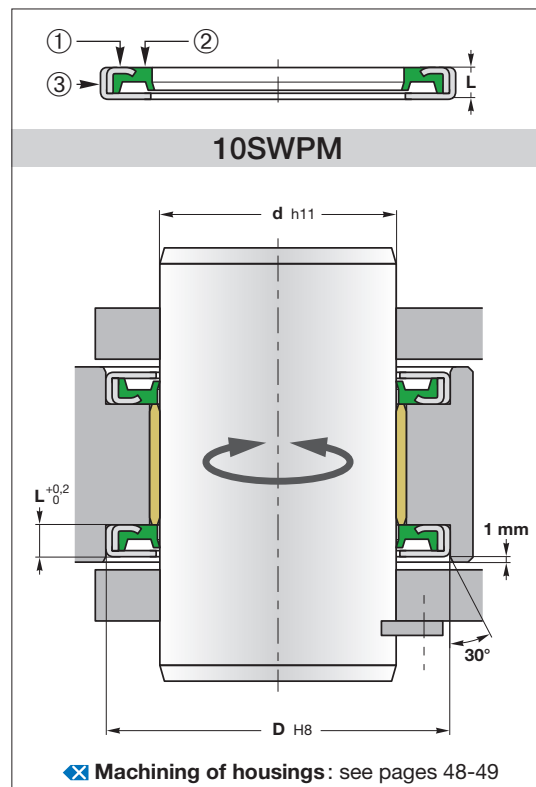
### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.



| d     | D     | L    | Reference          |
|-------|-------|------|--------------------|
| 15,88 | 28,57 | 7,92 | 10SWP/I 062112     |
| 19,05 | 25,4  | 3,18 | 10SWP/I 075100     |
|       | 31,75 | 6,35 | 10SWP/I 075125     |
| 22,22 | 28,57 | 4    | 10SWP/I 087112     |
|       | 34,92 | 7,92 | 10SWP/I 087137     |
| 25,4  | 38,1  | 7,92 | 10SWP/I 100150     |
| 28,57 | 38,1  | 4,76 | 10SWP/I 112150     |
|       | 41,27 | 7,92 | 10SWP/I 112162     |
| 31,75 | 41,27 | 4,76 | 10SWP/I 125162     |
|       | 44,45 | 6,35 | 10SWP/I 125175     |
| 34,92 | 47,62 | 7,92 | 10SWP/I 137187     |
| 38,1  | 47,62 | 6,35 | 10SWP/I 150187     |
|       | 47,62 | 4,76 | 10SWP/I 150187/1   |
|       | 50,8  | 6,35 | 10SWP/I 150200     |
|       | 57,15 | 9,5  | 10SWP/I 150225     |
| 41,27 | 53,97 | 6,35 | 10SWP/I 162212     |
| 44,45 | 53,97 | 4,76 | 10SWP/I 175212     |
|       | 53,97 | 3,18 | 10SWP/I 175212/1   |
|       | 57,15 | 6,35 | 10SWP/I 175225     |
|       | 63,5  | 9,5  | 10SWP/I 175250     |
| 47,63 | 60,33 | 7,92 | 10SWP/I 187237     |
| 50,8  | 60,33 | 4,76 | 10SWP/I 200237     |
|       | 63,5  | 7,92 | 10SWP/I 200250     |
|       | 63,5  | 6,35 | 10SWP/I 200250/1   |
|       | 66,67 | 6,35 | 10SWP/I 200262     |
|       | 68,26 | 9,5  | 10SWP/I 200268     |
|       | 69,85 | 9,5  | 10SWP/I 200275     |
|       | 69,85 | 6,35 | 10SWP/I 200275/1   |
| 53,97 | 63,5  | 4,76 | 10SWP/I 212250 NBR |
|       | 66,67 | 7,92 | 10SWP/I 212262     |
| 57,15 | 69,85 | 6,35 | 10SWP/I 225275     |
|       | 73,02 | 6,35 | 10SWP/I 225287     |
|       | 76,2  | 7,92 | 10SWP/I 225300     |
|       | 76,2  | 9,5  | 10SWP/I 225300/1   |
| 60,33 | 73,02 | 6,35 | 10SWP/I 237287     |

| d      | D      | L    | Reference        |
|--------|--------|------|------------------|
| 63,5   | 76,2   | 7,92 | 10SWP/I 250300   |
|        | 76,2   | 6,35 | 10SWP/I 250300/1 |
|        | 82,55  | 9,5  | 10SWP/I 250325   |
|        | 82,55  | 6,35 | 10SWP/I 250325/1 |
| 66,67  | 79,37  | 7,37 | 10SWP/I 262312   |
| 69,85  | 82,55  | 7,92 | 10SWP/I 275325   |
|        | 88,9   | 6,35 | 10SWP/I 275350   |
|        | 95,25  | 12,7 | 10SWP/I 275375   |
| 73,03  | 88,9   | 6,35 | 10SWP/I 287350   |
| 76,2   | 88,9   | 7,92 | 10SWP/I 300350   |
|        | 95,25  | 6,35 | 10SWP/I 300375   |
|        | 101,6  | 12,7 | 10SWP/I 300400   |
| 79,37  | 92,07  | 5,85 | 10SWP/I 312362   |
| 82,55  | 95,25  | 9,5  | 10SWP/I 325375   |
|        | 95,25  | 7,92 | 10SWP/I 325375/1 |
|        | 101,6  | 6,35 | 10SWP/I 325400   |
|        | 107,95 | 12,7 | 10SWP/I 325425   |
| 88,9   | 101,6  | 7,92 | 10SWP/I 350400   |
|        | 104,77 | 6,35 | 10SWP/I 350412   |
|        | 104,77 | 7,92 | 10SWP/I 350412/1 |
|        | 107,95 | 6,35 | 10SWP/I 350425   |
|        | 107,95 | 7,92 | 10SWP/I 350425/1 |
|        | 114,3  | 12,7 | 10SWP/I 350450   |
| 95,25  | 114,3  | 7,92 | 10SWP/I 375450/1 |
|        | 120,65 | 12,7 | 10SWP/I 375475   |
| 101,6  | 114,3  | 6,35 | 10SWP/I 400450   |
|        | 120,65 | 7,92 | 10SWP/I 400475   |
|        | 127    | 12,7 | 10SWP/I 400500   |
| 107,95 | 133,35 | 12,7 | 10SWP/I 425525   |
| 114,3  | 127    | 6,35 | 10SWP/I 450500   |
|        | 139,7  | 12,7 | 10SWP/I 450550   |
| 120,65 | 146,05 | 9,5  | 10SWP/I 475575   |
| 127    | 142,88 | 7,92 | 10SWP/I 500562   |
|        | 146,05 | 7,92 | 10SWP/I 500575   |
| 139,7  | 158,75 | 7,92 | 10SWP/I 550625   |
| 152,4  | 168,28 | 9,5  | 10SWP/I 600662   |



**10SWPM** is a single-acting PU pin dust seal with two external metal cages for open groove assembly. The metal cages have to be pressed into the groove.

The function of this wiper is to prevent introduction of dust, dirt and foreign matter into the system, to protect the bushing and the pin. To extend the service life of the pin dust seal, there is a **second metal cage** which protect efficiently the PU lip. The PU lip produces an effective cleaning action to avoid damage to all internal components.

**10SWPM** are well suited for applications in mobile hydraulic systems for heavy duty operation.

This wiper is produced in polyurethane which ensures increased **wear resistance** and an extended service life due to good resistance against weathering.

#### Operating conditions

✕ see page 8

|             |                   |
|-------------|-------------------|
| Temperature | -30°C to 100°C    |
| Speed       | ≤ 0,5 m/s         |
| Fluids      | ✕ see pages 22-45 |

#### Materials

✕ see pages 10-19

|              |              |
|--------------|--------------|
| Metal cage ① | Carbon steel |
| Wiper ②      | PU14         |
| Metal cage ③ | Carbon steel |

#### Assembly

✕ see pages 54-59

Must be pressed in an open housing

#### Advantages

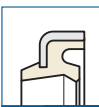
- External press-fitting for a good housing protection
- Space-saving construction
- Good price-performance ratio
- Small housing
- Simple groove construction
- Excellent abrasion resistance
- Extended service life
- For earth moving machines and difficult working conditions
- Easy installation especially with small diameters

**Please contact us for applications approaching maximum values.**

#### More information

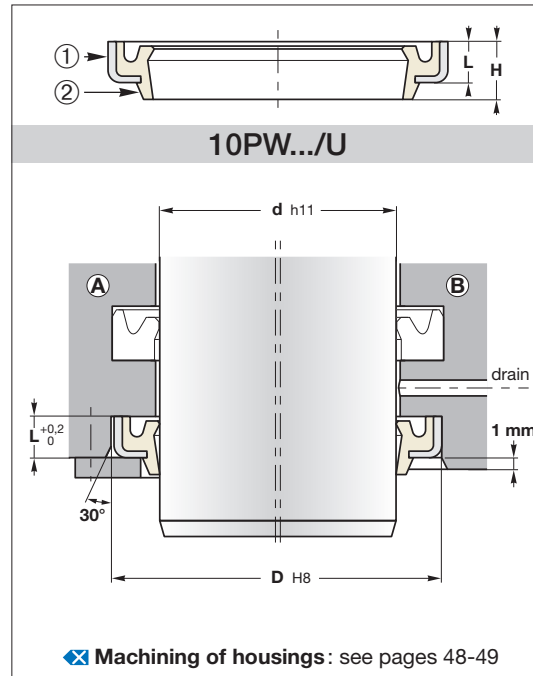
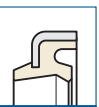
On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

| d   | D   | L | Reference      |
|-----|-----|---|----------------|
| 25  | 35  | 4 | 10SWPM 2535    |
| 30  | 40  | 4 | 10SWPM 3040    |
| 35  | 45  | 4 | 10SWPM 3545    |
| 40  | 50  | 4 | 10SWPM 4050    |
| 45  | 55  | 4 | 10SWPM 4555    |
| 50  | 60  | 4 | 10SWPM 5060    |
| 55  | 65  | 4 | 10SWPM 5565/1  |
|     | 68  | 4 | 10SWPM 5568    |
| 60  | 75  | 4 | 10SWPM 6075/1  |
| 65  | 80  | 4 | 10SWPM 6580    |
| 70  | 80  | 4 | 10SWPM 7080/2  |
|     | 85  | 4 | 10SWPM 7085/1  |
| 75  | 90  | 4 | 10SWPM 7590    |
| 80  | 95  | 4 | 10SWPM 8095    |
| 85  | 100 | 4 | 10SWPM 85100/1 |
| 90  | 105 | 4 | 10SWPM 90105   |
| 95  | 110 | 4 | 10SWPM 95110   |
| 100 | 115 | 4 | 10SWPM100115/2 |
| 110 | 125 | 4 | 10SWPM110125   |
| 120 | 135 | 4 | 10SWPM120135   |
| 125 | 140 | 4 | 10SWPM125140   |
| 140 | 155 | 4 | 10SWPM140155   |



10PW.../U

## Double acting PU wiper for open groove



**10PW.../U** is a double-acting PU wiper with an external metal cage for open groove assembly. The metal cage has to be pressed into the groove.

**10PW.../U** wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side retains the residual oil film from the extending piston rod.

This wiper is produced in polyurethane which ensures increased **wear resistance** and an extended service life due to good resistance against weathering.

The scraper is preferably used in conjunction with seals with a hydrodynamic **back-pumping function**.

To ensure the safety of the system in case of possible back-pressure behind the wiper, we advice to prevent the push-out of the wiper with a ring (assembly A).

For assembly B (see picture) a drainage channel must be opened in this area.

### Operating conditions see page 8

|             |                                                                                                    |
|-------------|----------------------------------------------------------------------------------------------------|
| Temperature | -30°C to 100°C                                                                                     |
| Speed       | ≤ 0,5 m/s                                                                                          |
| Fluids      |  see pages 22-45 |

### Materials see pages 10-19

|              |                  |
|--------------|------------------|
| Metal cage ① | Galvanised steel |
| Wiper ②      | PU15             |

### Assembly see pages 54-59

Must be pressed in an open housing

### Advantages

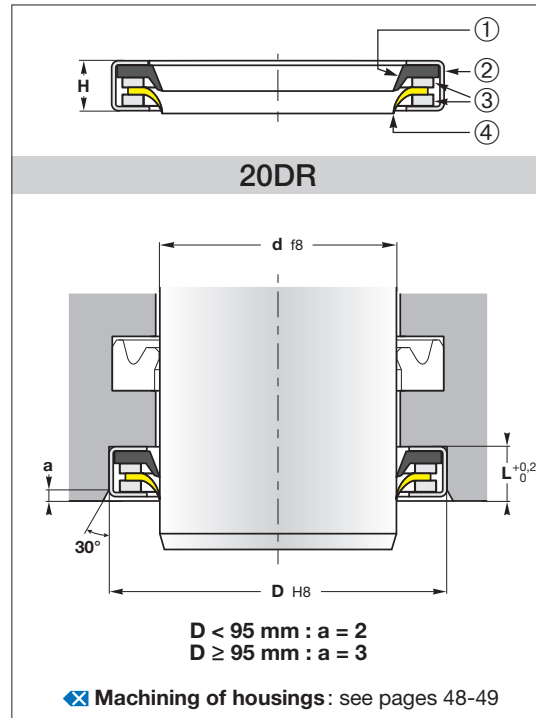
- External press-fitting for a good housing protection
- Space-saving construction
- Reduced oil film leakage
- Good price-performance ratio
- Excellent abrasion resistance
- Extended service life
- Easy installation especially with small diameters

**Please contact us for applications approaching maximum values.**

### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

| d   | D   | L  | H  | Reference     |
|-----|-----|----|----|---------------|
| 20  | 32  | 6  | 9  | 10PW 20/U     |
| 22  | 34  | 6  | 9  | 10PW 22/U     |
| 25  | 37  | 6  | 9  | 10PW 25/U     |
| 30  | 42  | 6  | 9  | 10PW 30/U     |
| 32  | 44  | 7  | 10 | 10PW 32/U     |
| 32  | 52  | 8  | 11 | 10PW 32/1/U   |
| 35  | 47  | 7  | 10 | 10PW 35/U     |
| 40  | 52  | 7  | 10 | 10PW 40/U     |
| 45  | 57  | 7  | 10 | 10PW 45/U     |
| 50  | 60  | 7  | 10 | 10PW 50/1U    |
| 50  | 62  | 7  | 10 | 10PW 50/U     |
| 55  | 69  | 8  | 11 | 10PW 55/U     |
| 60  | 74  | 8  | 11 | 10PW 60/U     |
| 63  | 77  | 8  | 11 | 10PW 63/U NBR |
| 65  | 79  | 8  | 11 | 10PW 65/U     |
| 70  | 84  | 8  | 11 | 10PW 70/U     |
| 75  | 89  | 8  | 11 | 10PW 75/U     |
| 80  | 94  | 8  | 11 | 10PW 80/U     |
| 85  | 99  | 8  | 11 | 10PW 85/U     |
| 90  | 104 | 8  | 11 | 10PW 90/U     |
| 95  | 109 | 8  | 11 | 10PW 95/U     |
| 100 | 114 | 8  | 11 | 10PW 100/U    |
| 105 | 121 | 9  | 12 | 10PW 105/U    |
| 110 | 126 | 9  | 12 | 10PW 110/U    |
| 115 | 131 | 9  | 12 | 10PW 115/U    |
| 120 | 136 | 9  | 12 | 10PW 120/U    |
| 125 | 141 | 9  | 12 | 10PW 125/U    |
| 130 | 146 | 9  | 12 | 10PW 130/U    |
| 135 | 155 | 10 | 14 | 10PW 135/U    |
| 140 | 160 | 10 | 14 | 10PW 140/U    |
| 145 | 165 | 10 | 14 | 10PW 145/U    |
| 155 | 175 | 10 | 14 | 10PW 155/U    |
| 160 | 180 | 10 | 14 | 10PW 160/U    |
| 165 | 185 | 10 | 14 | 10PW 165/U    |
| 170 | 190 | 10 | 14 | 10PW 170/U    |
| 175 | 195 | 10 | 14 | 10PW 175/U    |
| 180 | 200 | 10 | 14 | 10PW 180/1/U  |
| 180 | 205 | 12 | 17 | 10PW 180/U    |



**20DR** consists of a steel housing, a thin brass lip and an NBR wiper ring.

This metal wiper scraper is used in applications where usual wipers wear too quickly or are not efficient enough. The brass lip is designed to remove firmly adhering contaminants or ice particles from the rod, leaving the secondary NBR wiper lip to remove smaller loose particles of dust, water...

The brass scraper ring has radial clearance in the housing and can easily **follow any deflection** of the rod.

#### Operating conditions see page 8

|             |                                                                                                    |
|-------------|----------------------------------------------------------------------------------------------------|
| Temperature | -30°C to 110°C                                                                                     |
| Speed       | ≤ 1 m/s                                                                                            |
| Fluids      |  see pages 22-45 |

#### Materials see pages 10-19

|                   |     |
|-------------------|-----|
| Elastomer lip ①   | NBR |
| Metal housing ②   | ST  |
| Distance pieces ③ | ST  |
| Metallic lip ④    | MS  |

#### Assembly see pages 54-59

Must be pressed into an open housing

#### Advantages

Very good scraping effect under extreme conditions  
Suitable for ice, mud and other adhering particles  
The floating metallic lip follows any possible deflection of the piston rod  
External press-fitting for a good housing protection  
Very abrasion resistant

**Please contact us for applications approaching maximum values.**

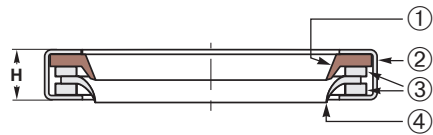
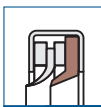
#### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

| d  | D  | L   | H   | Reference |
|----|----|-----|-----|-----------|
| 12 | 25 | 7   | 6,5 | 20DR 12   |
| 14 | 27 | 7   | 6,5 | 20DR 14   |
| 15 | 28 | 7   | 6,5 | 20DR 15   |
| 16 | 29 | 7   | 6,5 | 20DR 16   |
| 18 | 31 | 7   | 6,5 | 20DR 18   |
| 20 | 33 | 7   | 6,5 | 20DR 20   |
| 22 | 35 | 7   | 6,5 | 20DR 22   |
| 25 | 38 | 7   | 6,5 | 20DR 25   |
| 28 | 41 | 7   | 6,5 | 20DR 28   |
| 30 | 43 | 7,5 | 7   | 20DR 30   |
| 30 | 42 | 7,9 | 7,4 | 20DR 30/1 |
| 32 | 45 | 7,5 | 7   | 20DR 32   |
| 35 | 48 | 7,5 | 7   | 20DR 35   |
| 36 | 49 | 7,5 | 7   | 20DR 36   |
| 38 | 51 | 7,5 | 7   | 20DR 38   |
| 40 | 53 | 7,5 | 7   | 20DR 40   |
| 40 | 52 | 7,9 | 7,4 | 20DR 40/1 |
| 45 | 58 | 7,5 | 7   | 20DR 45   |
| 50 | 64 | 8   | 7,5 | 20DR 50   |
| 50 | 65 | 7,9 | 7,4 | 20DR 50/1 |
| 55 | 69 | 8   | 7,5 | 20DR 55   |
| 56 | 70 | 8   | 7,5 | 20DR 56   |
| 56 | 69 | 7,9 | 7,4 | 20DR 56/1 |
| 58 | 72 | 8   | 7,5 | 20DR 58   |

| d     | D      | L   | H   | Reference |
|-------|--------|-----|-----|-----------|
| 60    | 74     | 8   | 7,5 | 20DR 60   |
| 63    | 77     | 8   | 7,5 | 20DR 63   |
| 65    | 79     | 8   | 7,5 | 20DR 65   |
| 70    | 84     | 8   | 7,5 | 20DR 70   |
| 75    | 89     | 8   | 7,5 | 20DR 75   |
| 80    | 96     | 8,5 | 8   | 20DR 80   |
| 85    | 101    | 8,5 | 8   | 20DR 85   |
| 90    | 106    | 8,5 | 8   | 20DR 90   |
| 95    | 111    | 8,5 | 8   | 20DR 95   |
| 100   | 120    | 9   | 8,5 | 20DR 100  |
| 110   | 130    | 9   | 8,5 | 20DR 110  |
| 120   | 140    | 9   | 8,5 | 20DR 120  |
| 125   | 145    | 9   | 8,5 | 20DR 125  |
| 130   | 150    | 9   | 8,5 | 20DR 130  |
| 139,7 | 155,62 | 9,1 | 8,5 | 20DR 139  |
| 140   | 160    | 9   | 8,5 | 20DR 140  |
| 150   | 170    | 9   | 8,5 | 20DR 150  |
| 160   | 180    | 9   | 8,5 | 20DR 160  |
| 170   | 190    | 9   | 8,5 | 20DR 170  |
| 180   | 200    | 12  | 10  | 20DR 180  |
| 200   | 230    | 12  | 10  | 20DR 200  |
| 220   | 250    | 12  | 10  | 20DR 220  |
| 250   | 280    | 12  | 10  | 20DR 250  |
| 300   | 330    | 12  | 10  | 20DR 300  |

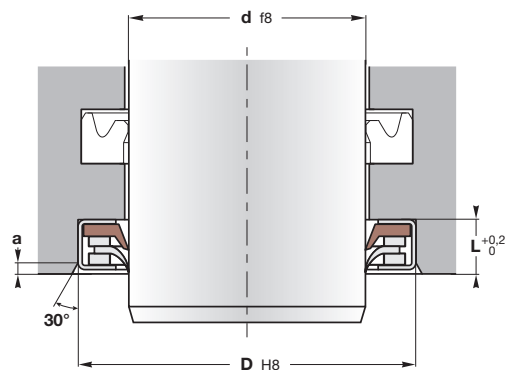


**20DR...-SS/FPM/SS**

## Example of item code

20DR 50 - SS / FPM / SS  
Sealtech code    Material    Material    Material  
Diameter    ④    ①    ②/③  
d mm

②/③/④ materials: MS=brass, SS=stainless steel, ST=steel



D < 95 mm : a = 2  
D ≥ 95 mm : a = 3

✕ Machining of housings : see pages 48-49

**20DR...-SS/FPM/SS** consists of a metal housing in stainless steel, a stainless steel scraper lip and a Viton wiper ring.

This metal wiper scraper is used in applications where usual wipers wear too quickly or are not efficient enough. The stainless steel lip is designed **to remove firmly adhering contaminants** and particles from the rod, leaving the secondary Viton wiper lip to remove smaller loose particles of dust, etc.

The metal scraper ring in stainless steel has radial clearance in the housing and can easily follow any deflection of the rod. Produced in stainless steel, this wiper can be used in more corrosive environments. With a secondary lip in fluorocarbon elastomer, this wiper is also suited for processes at **higher temperatures**, or in applications in contact with more aggressive media and chemicals.

**Operating conditions** ✕ see page 8

Temperature -20°C to 180°C  
Speed ≤ 1 m/s  
Fluids ✕ see pages 22-45

**Materials** ✕ see pages 10-19

Elastomer lip ① FPM (NBR on demand)  
Metal housing ② AISI 304 (316 or ST on demand)  
Distance pieces ③ AISI 304 (316 or ST on demand)  
Metallic lip ④ AISI 304 (316 or MS on demand)

**Assembly** ✕ see pages 54-59

Must be pressed into an open housing

**Advantages**

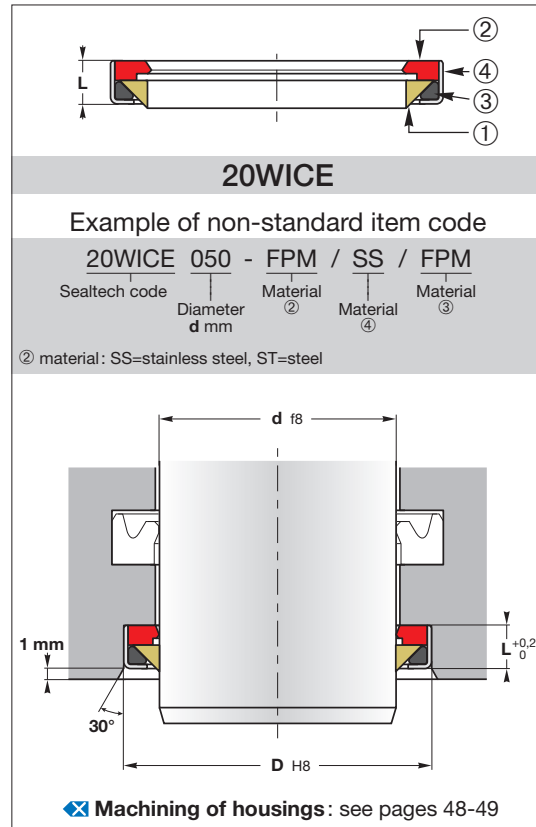
Very good scraping effect under extreme conditions  
Suitable for ice, mud and other adhering particles  
The floating metallic lip follows any possible deflections of the piston rod  
External press-fitting for a good housing protection  
Very abrasion resistant  
Up to 180°C  
Resistant to aggressive fuels and chemicals  
Stainless steel for better corrosion resistance

**Please contact us for applications approaching maximum values.**

**More information**

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

| d   | D     | L   | H   | Reference            |
|-----|-------|-----|-----|----------------------|
| 14  | 27    | 7   | 6,5 | 20 DR 14-SS/FPM/SS   |
| 18  | 31    | 7   | 6,5 | 20 DR 18-SS/FPM/SS   |
| 20  | 33    | 7   | 6,5 | 20 DR 20-SS/FPM/SS   |
| 22  | 35    | 7   | 6,5 | 20 DR 22-SS/FPM/SS   |
| 25  | 38    | 7   | 6,5 | 20 DR 25-SS/FPM/SS   |
| 28  | 41    | 7   | 6,5 | 20 DR 28-SS/FPM/SS   |
| 30  | 43    | 7,5 | 7   | 20 DR 30-SS/FPM/SS   |
| 32  | 45    | 7,5 | 7   | 20 DR 32-SS/FPM/SS   |
| 35  | 48    | 7,5 | 7   | 20 DR 35-SS/FPM/SS   |
| 36  | 49    | 7,5 | 7   | 20 DR 36-SS/FPM/SS   |
| 40  | 53    | 7,5 | 7   | 20 DR 40-SS/FPM/SS   |
| 45  | 57,15 | 7,9 |     | 20 DR 45/1-SS/FPM/SS |
| 45  | 58    | 7,5 | 7   | 20 DR 45-SS/FPM/SS   |
| 50  | 64    | 8   | 7,5 | 20 DR 50-SS/FPM/SS   |
| 55  | 69    | 8   | 7,5 | 20 DR 55-SS/FPM/SS   |
| 56  | 70    | 8   | 7,5 | 20 DR 56-SS/FPM/SS   |
| 60  | 74    | 8   | 7,5 | 20 DR 60-SS/FPM/SS   |
| 63  | 77    | 8   | 7,5 | 20 DR 63-SS/FPM/SS   |
| 65  | 79    | 8   | 7,5 | 20 DR 65-SS/FPM/SS   |
| 70  | 84    | 8   | 7,5 | 20 DR 70-SS/FPM/SS   |
| 80  | 96    | 8,5 | 8   | 20 DR 80-SS/FPM/SS   |
| 90  | 106   | 8,5 | 8   | 20 DR 90-SS/FPM/SS   |
| 100 | 120   | 9   | 8,5 | 20 DR 100-SS/FPM/SS  |
| 110 | 130   | 9   | 8,5 | 20 DR 110-SS/FPM/SS  |
| 125 | 145   | 9   | 8,5 | 20 DR 125-SS/FPM/SS  |
| 140 | 160   | 9   | 8,5 | 20 DR 140-SS/FPM/SS  |
| 160 | 180   | 9   | 8,5 | 20 DR 160-SS/FPM/SS  |



**20WICE** consists of a steel housing with a robust bronze lip and a PU wiper ring.

This wiper is used in application where standard wipers wear too quickly.

The bronze lip is designed to remove the **firmly adhering contaminants** and ice particles from the rod, leaving the secondary PU wiper to remove smaller loose particles of dust, high fat media... The metal scraper has radial clearance in the housing and can easily follow any deflections of the rod.

#### Operating conditions see page 8

|                   |                |
|-------------------|----------------|
| Temperature       |                |
| standard          | -30°C to 100°C |
| FPM ② and FPM ③   | -10°C to 180°C |
| PU22 ② and TNBR ③ | -50°C to 100°C |

Speed ≤ 0,5 m/s

Fluids  see pages 22-45

#### Materials see pages 10-19

|                       |           |             |
|-----------------------|-----------|-------------|
| Metallic lip ①        | standard  | BZ (bronze) |
| Static seal ③         | standard  | NBR         |
|                       | on demand | FPM, TNBR   |
| PU or Elastomer lip ② | standard  | PU21        |
|                       | on demand | FPM, PU22   |
| Metal housing ④       | standard  | ST          |
|                       | on demand | SS          |

#### Assembly see pages 54-59

Must be pressed into an open housing

#### Advantages

- Very good scraping effect under extreme conditions
- Suitable for ice, mud and other adhering particles
- The floating metallic lip can follow any possible deflection of the piston rod
- Very robust and abrasion resistant
- Small housing
- Up to 180°C (with the FPM materials)
- Down to -50°C (with the PU22 and TNBR materials)
- Resistant to aggressive fuels and chemicals

**Please contact us for applications approaching maximum values.**

#### More information

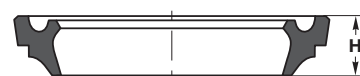
On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

| d   | D   | L | Reference  |
|-----|-----|---|------------|
| 18  | 28  | 7 | 20WICE 018 |
| 20  | 30  | 7 | 20WICE 020 |
| 22  | 32  | 7 | 20WICE 022 |
| 25  | 35  | 7 | 20WICE 025 |
| 28  | 38  | 7 | 20WICE 028 |
| 30  | 40  | 7 | 20WICE 030 |
| 32  | 42  | 7 | 20WICE 032 |
| 35  | 45  | 7 | 20WICE 035 |
| 36  | 45  | 7 | 20WICE 036 |
| 40  | 50  | 7 | 20WICE 040 |
| 45  | 55  | 7 | 20WICE 045 |
| 50  | 60  | 7 | 20WICE 050 |
| 55  | 65  | 7 | 20WICE 055 |
| 56  | 66  | 7 | 20WICE 056 |
| 60  | 70  | 7 | 20WICE 060 |
| 63  | 75  | 7 | 20WICE 063 |
| 65  | 75  | 7 | 20WICE 065 |
| 70  | 80  | 7 | 20WICE 070 |
| 75  | 85  | 7 | 20WICE 075 |
| 80  | 90  | 7 | 20WICE 080 |
| 85  | 95  | 7 | 20WICE 085 |
| 90  | 100 | 7 | 20WICE 090 |
| 100 | 110 | 7 | 20WICE 100 |
| 110 | 120 | 7 | 20WICE 110 |
| 125 | 140 | 9 | 20WICE 125 |
| 140 | 155 | 9 | 20WICE 140 |
| 160 | 175 | 9 | 20WICE 160 |
| 180 | 195 | 9 | 20WICE 180 |
| 200 | 215 | 9 | 20WICE 200 |



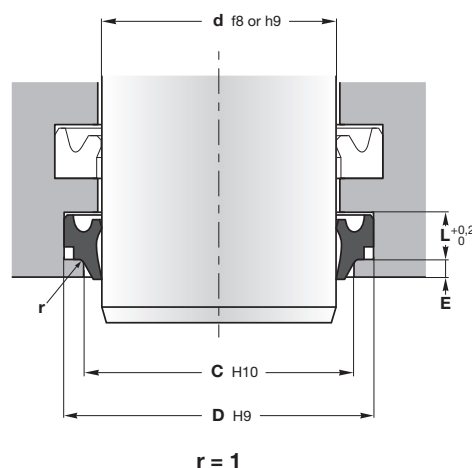
17WD17

Scraper DA17

**SEALTECH**  
Hydraulic Seals Technology**17WD17**

Example of item code

|               |               |                 |                      |   |          |
|---------------|---------------|-----------------|----------------------|---|----------|
| 17            | WD17          | 0               | 0500                 | - | N9...    |
| Sealtech code | Profile serie | Type (standard) | Diameter d (mm x 10) |   | Material |



✕ Machining of housings: see pages 48-49

**17WD17** wiper in nitrile elastomer has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side holds back the residual oil film from the extending piston rod.

On the static surface, the sealing is achieved by contact of the flexible outside lip with the housing. The dynamic lip is shorter and stronger to concentrate load against the dynamic surface.

In order to avoid any possible problem due to hydrodynamic pressure between the rod seal and the wiper, **17WD17** is preferably used in conjunction with rod seals with a hydrodynamic **back-pumping function**, or otherwise, a drainage channel must be opened in this area.

**Operating conditions**

✕ see page 8

Temperature -30°C to 110°C  
Speed ≤ 1 m/s  
Fluids ✕ see pages 22-45

**Materials**

✕ see pages 10-19

Elastomer NBR 90 Sh A

**Assembly**

✕ see pages 54-59

The wipers may be easily assembled into the grooved housing

**Advantages**

Good protection of the housing against external intrusion  
Reduced oil film leakage  
Easy to assemble  
Small housing  
Simple groove construction

**Please contact us for applications approaching maximum values.**

**More information**

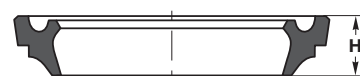
On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| d   | D   | L   | C     | E <sub>min.</sub> | H  | Reference         |
|-----|-----|-----|-------|-------------------|----|-------------------|
| 12  | 20  | 6   | 15,5  | 2                 | 8  | 17WD1700120-N9651 |
| 16  | 24  | 6   | 19,5  | 2                 | 8  | 17WD1700160-N9651 |
| 18  | 26  | 6   | 21,5  | 2                 | 8  | 17WD1700180-N9651 |
| 20  | 28  | 6   | 23,5  | 2                 | 8  | 17WD1700200-N9651 |
| 22  | 30  | 6   | 25,5  | 2                 | 8  | 17WD1700220-N9651 |
| 25  | 33  | 6   | 28,5  | 2                 | 8  | 17WD1700250-N9651 |
| 28  | 36  | 6   | 31,5  | 2                 | 8  | 17WD1700280-N9651 |
| 30  | 38  | 6   | 33,5  | 2                 | 8  | 17WD1700300-N9651 |
| 32  | 40  | 6   | 35,5  | 2                 | 8  | 17WD1700320-N9651 |
| 35  | 43  | 6   | 38,5  | 2                 | 8  | 17WD1700350-N9651 |
| 36  | 44  | 6   | 39,5  | 2                 | 8  | 17WD1700360-N9651 |
| 40  | 48  | 6   | 43,5  | 2                 | 8  | 17WD1700400-N9651 |
| 42  | 50  | 6   | 45,5  | 2                 | 8  | 17WD1700420-N9651 |
| 45  | 53  | 6   | 48,5  | 2                 | 8  | 17WD1700450-N9651 |
| 50  | 58  | 6   | 53,5  | 2                 | 8  | 17WD1700500-N9651 |
| 52  | 60  | 6   | 55,5  | 2                 | 8  | 17WD1700520-N9651 |
| 55  | 63  | 6   | 58,5  | 2                 | 8  | 17WD1700550-N9651 |
| 56  | 64  | 6   | 59,5  | 2                 | 8  | 17WD1700560-N9651 |
| 60  | 68  | 6   | 63,5  | 2                 | 8  | 17WD1700600-N9651 |
| 63  | 71  | 6   | 66,5  | 2                 | 8  | 17WD1700630-N9651 |
| 65  | 73  | 6   | 68,5  | 2                 | 8  | 17WD1700650-N9651 |
| 70  | 78  | 6   | 73,5  | 2                 | 8  | 17WD1700700-N9651 |
| 75  | 83  | 6   | 78,5  | 2                 | 8  | 17WD1700750-N9651 |
| 80  | 88  | 6   | 83,5  | 2                 | 8  | 17WD1700800-N9651 |
| 85  | 93  | 6   | 88,5  | 2                 | 8  | 17WD1700850-N9651 |
| 90  | 98  | 6   | 93,5  | 2                 | 8  | 17WD1700900-N9651 |
| 100 | 108 | 6   | 103,5 | 2                 | 8  | 17WD1701000-N9651 |
| 105 | 117 | 8,2 | 110   | 3                 | 11 | 17WD1701050-N9651 |
| 110 | 122 | 8,2 | 115   | 3                 | 11 | 17WD1701100-N9651 |
| 115 | 127 | 8,2 | 120   | 3                 | 11 | 17WD1701150-N9651 |
| 120 | 132 | 8,2 | 125   | 3                 | 11 | 17WD1701200-N9651 |
| 125 | 137 | 8,2 | 130   | 3                 | 11 | 17WD1701250-N9651 |
| 130 | 142 | 8,2 | 135   | 3                 | 11 | 17WD1701300-N9651 |
| 135 | 147 | 8,2 | 140   | 3                 | 11 | 17WD1701350-N9651 |
| 140 | 152 | 8,2 | 145   | 3                 | 11 | 17WD1701400-N9651 |
| 145 | 157 | 8,2 | 150   | 3                 | 11 | 17WD1701450-N9651 |
| 150 | 162 | 8,2 | 155   | 3                 | 11 | 17WD1701500-N9651 |
| 155 | 167 | 8,2 | 160   | 3                 | 11 | 17WD1701550-N968T |
| 160 | 172 | 8,2 | 165   | 3                 | 11 | 17WD1701600-N9651 |
| 170 | 182 | 8,2 | 175   | 3                 | 11 | 17WD1701700-N9651 |
| 180 | 192 | 8,2 | 185   | 3                 | 11 | 17WD1701800-N9651 |
| 190 | 202 | 8,2 | 195   | 3                 | 11 | 17WD1701900-N9651 |
| 200 | 212 | 8,2 | 205   | 3                 | 11 | 17WD1702000-N9651 |
| 210 | 225 | 9,5 | 217   | 3                 | 13 | 17WD1702100-N9651 |
| 220 | 235 | 9,5 | 227   | 3                 | 13 | 17WD1702200-N9651 |



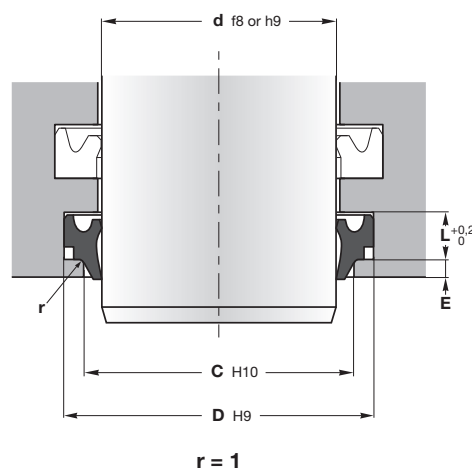
17WD17

Scraper DA17

**SEALTECH**  
Hydraulic Seals Technology**17WD17**

## Example of item code

|               |               |                 |                      |   |          |
|---------------|---------------|-----------------|----------------------|---|----------|
| 17            | WD17          | 0               | 0500                 | - | N9...    |
| Sealtech code | Profile serie | Type (standard) | Diameter d (mm x 10) |   | Material |

✕ **Machining of housings:** see pages 48-49

**17WD17** wiper in nitrile elastomer has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side holds back the residual oil film from the extending piston rod.

On the static surface, the sealing is achieved by contact of the flexible outside lip with the housing. The dynamic lip is shorter and stronger to concentrate load against the dynamic surface.

In order to avoid any possible problem due to hydrodynamic pressure between the rod seal and the wiper, **17WD17** is preferably used in conjunction with rod seals with a hydrodynamic **back-pumping function**, or otherwise, a drainage channel must be opened in this area.

**Operating conditions**

✕ see page 8

Temperature -30°C to 110°C  
 Speed ≤ 1 m/s  
 Fluids ✕ see pages 22-45

**Materials**

✕ see pages 10-19

Elastomer NBR 90 Sh A

**Assembly**

✕ see pages 54-59

The wipers may be easily assembled into the grooved housing

**Advantages**

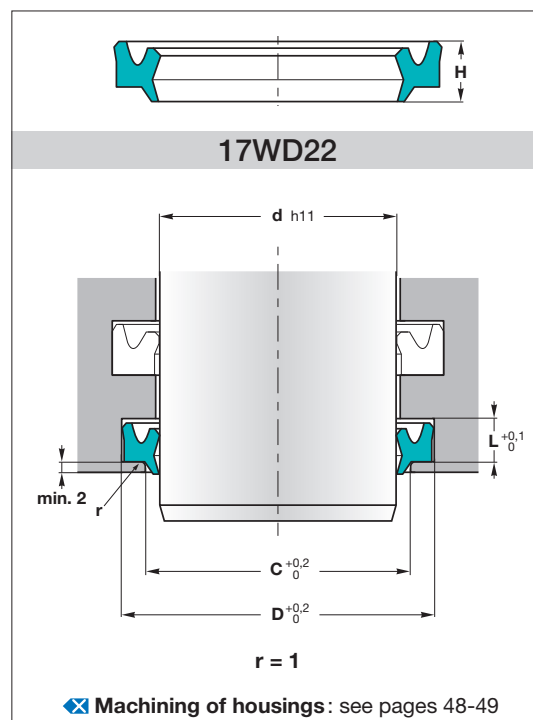
Good protection of the housing against external intrusion  
 Reduced oil film leakage  
 Easy to assemble  
 Small housing  
 Simple groove construction

**Please contact us for applications approaching maximum values.**

**More information**

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| d   | D   | L   | C   | E <sub>min.</sub> | H  | Reference         |
|-----|-----|-----|-----|-------------------|----|-------------------|
| 230 | 245 | 9,5 | 237 | 3                 | 13 | 17WD1702300-N9651 |
| 240 | 255 | 9,5 | 247 | 3                 | 13 | 17WD1702400-N9651 |
| 250 | 265 | 9,5 | 257 | 3                 | 13 | 17WD1702500-N9651 |
| 260 | 275 | 9,5 | 267 | 3                 | 13 | 17WD1702600-N9651 |
| 280 | 295 | 9,5 | 287 | 3                 | 13 | 17WD1702800-N9651 |
| 290 | 305 | 9,5 | 297 | 3                 | 13 | 17WD1702900-N968T |
| 300 | 315 | 9,5 | 307 | 3                 | 13 | 17WD1703000-N9651 |
| 310 | 325 | 9,5 | 317 | 3                 | 13 | 17WD1703100-N968T |
| 320 | 335 | 9,5 | 327 | 3                 | 13 | 17WD1703200-N9651 |
| 340 | 355 | 9,5 | 347 | 3                 | 13 | 17WD1703400-N9651 |
| 350 | 365 | 9,5 | 357 | 3                 | 13 | 17WD1703500-N968T |
| 360 | 375 | 9,5 | 367 | 3                 | 13 | 17WD1703600-N9651 |
| 380 | 395 | 9,5 | 387 | 3                 | 13 | 17WD1703800-N9651 |
| 400 | 415 | 9,5 | 407 | 3                 | 13 | 17WD1704000-N9651 |
| 500 | 515 | 9,5 | 507 | 3                 | 13 | 17WD1705000-N968T |



**17WD22** double acting wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side retains the residual oil film from the extending piston rod.

On the static surface, the sealing is achieved by contact of the flexible outside lip with the housing. The dynamic sealing lip is shorter and stronger to concentrate load against the dynamic surface and is designed in a way that it assumes a sealing function even under low pressure (2 MPa). A relief bore must be provided with higher pressures.

This wiper is produced in polyurethane which ensures increased **wear resistance** and an extended service life due to good resistance against weathering.

In order to avoid any possible problem due to hydrodynamic pressure between the rod seal and the wiper, **17WD22** is preferably used in conjunction with rod seals with a hydrodynamic **back-pumping function**.

#### Operating conditions see page 8

|             |                                                                                                    |
|-------------|----------------------------------------------------------------------------------------------------|
| Temperature | -30°C to 100°C                                                                                     |
| Speed       | ≤ 0,8 m/s                                                                                          |
| Fluids      |  see pages 22-45 |

#### Materials see pages 10-19

|              |              |
|--------------|--------------|
| Polyurethane | Zurcon® Z201 |
|--------------|--------------|

#### Assembly see pages 54-59

The wipers may easily be mounted into the grooved housing

#### Advantages

- Reduced oil film leakage
- Easy to assemble
- Small housing
- Simple groove construction
- Extended service life
- Excellent abrasion resistance

**Please contact us for applications approaching maximum values.**

#### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

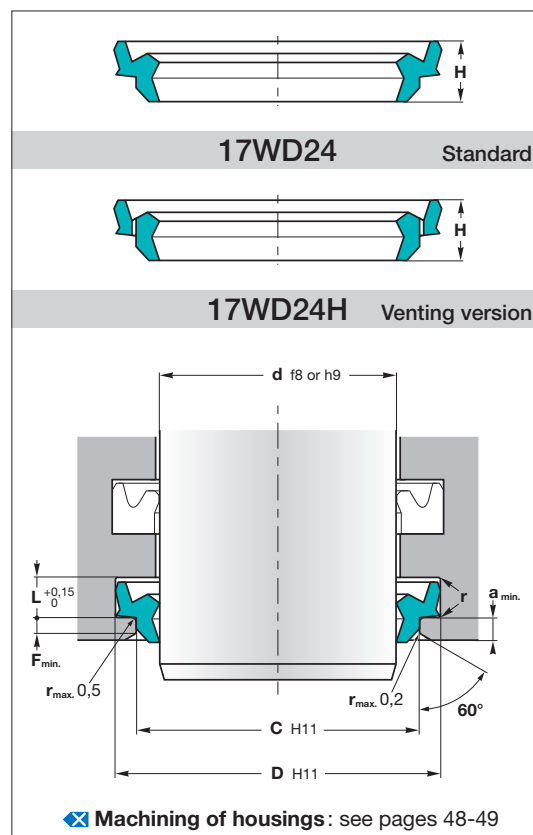
| d   | D   | L   | C    | H    | Reference        |
|-----|-----|-----|------|------|------------------|
| 6   | 11  | 3,5 | 8,5  | 4,5  | 17WD2200060-Z201 |
| 8   | 13  | 3,5 | 10,5 | 4,5  | 17WD2200080-Z201 |
| 10  | 16  | 4   | 12,5 | 5    | 17WD2200100-Z201 |
| 14  | 20  | 4   | 16,5 | 5    | 17WD2200140-Z201 |
| 18  | 24  | 4   | 20,5 | 5    | 17WD2200180-Z201 |
| 20  | 26  | 4   | 22,5 | 5    | 17WD2200200-Z201 |
| 22  | 28  | 4   | 24,5 | 5    | 17WD2200220-Z201 |
| 28  | 36  | 5   | 31   | 6    | 17WD2200280-Z201 |
| 32  | 40  | 5   | 35   | 6    | 17WD2200320-Z201 |
| 36  | 44  | 5   | 39   | 6    | 17WD2200360-Z201 |
| 40  | 48  | 5   | 43   | 6    | 17WD2200400-Z201 |
| 45  | 53  | 5   | 48   | 6    | 17WD2200450-Z201 |
| 50  | 58  | 5   | 53   | 6    | 17WD2200500-Z201 |
| 55  | 65  | 6   | 58   | 7,5  | 17WD2200550-Z201 |
| 56  | 66  | 6   | 59   | 7,5  | 17WD2200560-Z201 |
| 60  | 70  | 6   | 63   | 7,5  | 17WD2200600-Z201 |
| 63  | 73  | 6   | 66   | 7,5  | 17WD2200630-Z201 |
| 65  | 75  | 6   | 68   | 7,5  | 17WD2200650-Z201 |
| 70  | 80  | 6   | 73   | 7,5  | 17WD2200700-Z201 |
| 80  | 90  | 6   | 83   | 7,5  | 17WD2200800-Z201 |
| 100 | 110 | 6   | 103  | 7,5  | 17WD2201000-Z201 |
| 125 | 140 | 8,5 | 129  | 10,5 | 17WD2201250-Z201 |
| 140 | 155 | 8,5 | 144  | 10,5 | 17WD2201400-Z201 |
| 160 | 175 | 8,5 | 164  | 10,5 | 17WD2201600-Z201 |
| 180 | 195 | 8,5 | 184  | 10,5 | 17WD2201800-Z201 |





17WD24

Zurcon® Scraper® DA24



**17WD24** is a double acting thermoplastic polyurethane scraper for severe operating conditions and heavy attack of dirt.

The inward-facing sealing lip is designed to provide a very good sealing effect against the residual oil film.

The outer scraper lip leans against the housing and prevents the introduction of dirt and water around the outside.

The scraper effect remains stable even in case of high level of external contamination or rod eccentricity under side load.

**17WD24H** has an axial venting hole which allows oil to be released in case of pressure build-up behind the scraper, avoiding system failure.

In order to avoid any possible hydrodynamic pressure problems between the rod seal and the **17WD24**, it is preferably to use a rod seal with a hydrodynamic **back-pumping function**.

#### Operating conditions see page 8

|                |                                                                                                    |
|----------------|----------------------------------------------------------------------------------------------------|
| Pressure       |                                                                                                    |
| <b>17WD24</b>  | ≤ 5 MPa                                                                                            |
| <b>17WD24H</b> | ≤ 2 MPa                                                                                            |
| Temperature    | -30°C to 100°C                                                                                     |
| Speed          | ≤ 0,5 m/s                                                                                          |
| Fluids         |  see pages 22-45 |

#### Materials see pages 10-19

|              |              |
|--------------|--------------|
| Polyurethane | Zurcon® Z201 |
|--------------|--------------|

#### Assembly see pages 54-59

The wipers may easily be mounted into the grooved housing

#### Advantages

Very good scraper effect for heavy duty environments  
 Very good sealing and wiping effect of the residual oil film  
 Reduced friction with less heat generated and extended service life  
 Good stability in the groove  
 Easy to assemble  
 Excellent abrasion resistance

**Please contact us for applications approaching maximum values.**

#### More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the material.

| d   | D     | L   | C    | r   | f <sub>min.</sub> | a <sub>min.</sub> | H    | Reference        |
|-----|-------|-----|------|-----|-------------------|-------------------|------|------------------|
| 40  | 48,8  | 6,3 | 44,4 | 1,2 | 2                 | 3,2               | 10   | 17WD2410400-Z201 |
| 45  | 53,8  | 6,3 | 49,4 | 1,2 | 2                 | 3,2               | 10   | 17WD2410450-Z201 |
| 50  | 58,8  | 6,3 | 54,4 | 1,2 | 2                 | 3,2               | 10   | 17WD24H0500-Z201 |
| 55  | 63,8  | 6,3 | 59,4 | 1,2 | 2                 | 3,2               | 10   | 17WD24H0550-Z201 |
| 60  | 68,8  | 6,3 | 64,4 | 1,2 | 2                 | 3,2               | 10   | 17WD24H0600-Z201 |
| 70  | 82,2  | 8,1 | 76   | 1,6 | 2,5               | 4                 | 11,7 | 17WD24H0700-Z201 |
| 75  | 87,2  | 8,1 | 81   | 1,6 | 2,5               | 4                 | 11,7 | 17WD24H0750-Z201 |
| 80  | 92,2  | 8,1 | 86   | 1,6 | 2,5               | 4                 | 11,7 | 17WD24H0800-Z201 |
| 85  | 97,2  | 8,1 | 91   | 1,6 | 2,5               | 4                 | 11,7 | 17WD2410850-Z201 |
| 90  | 102,2 | 8,1 | 96   | 1,6 | 2,5               | 4                 | 11,7 | 17WD24H0900-Z201 |
| 95  | 107,2 | 8,1 | 101  | 1,6 | 2,5               | 4                 | 11,7 | 17WD24H0950-Z201 |
| 100 | 112,2 | 8,1 | 106  | 1,6 | 2,5               | 4                 | 11,7 | 17WD24H1000-Z201 |
| 105 | 117,2 | 8,1 | 111  | 1,6 | 2,5               | 4                 | 11,7 | 17WD24H1050-Z201 |
| 110 | 122,2 | 8,1 | 116  | 1,6 | 2,5               | 4                 | 11,7 | 17WD24H1100-Z201 |
| 125 | 137,2 | 8,1 | 131  | 1,6 | 2,5               | 4                 | 11,7 | 17WD24H1250-Z201 |
| 140 | 156   | 9,5 | 148  | 2   | 3                 | 5                 | 14   | 17WD2411400-Z201 |
| 150 | 166   | 9,5 | 158  | 2   | 3                 | 5                 | 14   | 17WD2401500-Z201 |
| 160 | 176   | 9,5 | 168  | 2   | 3                 | 5                 | 14   | 17WD2411600-Z201 |
| 170 | 186   | 9,5 | 178  | 2   | 3                 | 5                 | 14   | 17WD2401700-Z201 |
| 180 | 196   | 9,5 | 188  | 2   | 3                 | 5                 | 14   | 17WD2401800-Z201 |
| 200 | 216   | 9,5 | 208  | 2   | 3                 | 5                 | 14   | 17WD2402000-Z201 |
| 220 | 236   | 9,5 | 228  | 2   | 3                 | 5                 | 14   | 17WD2402200-Z201 |
| 250 | 266   | 9,5 | 258  | 2   | 3                 | 5                 | 14   | 17WD2402500-Z201 |
| 280 | 296   | 9,5 | 288  | 2   | 3                 | 5                 | 14   | 17WD2402800-Z201 |

#### Explanation of the Venting version.



1 Oil is coming between the seal and **17WD24H** double-acting wiper.



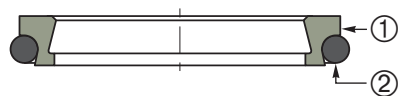
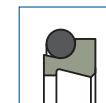
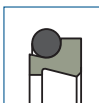
2 Pressure build-up in the groove. Outside diameter of wiper lip is sealing.



3 At a certain pressure level, oil flows a short time between the scraping lip and the housing

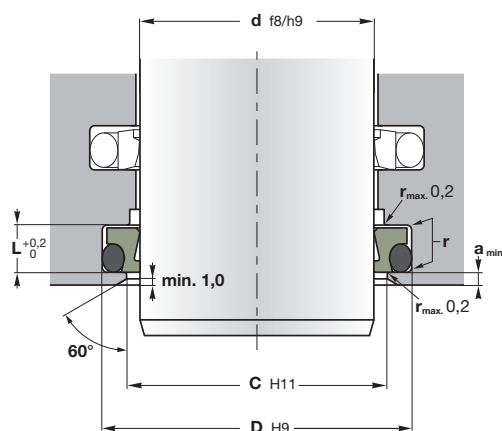


4 The oil is released and the pressure is relieved.

**17WE3...-T/M...N**

## Example of item code

|               |               |                 |                      |   |            |            |
|---------------|---------------|-----------------|----------------------|---|------------|------------|
| 17            | WE31          | 0               | 0500                 | - | T46        | N          |
| Sealtech code | Profile serie | Type (standard) | Diameter d (mm x 10) |   | Material ① | Material ② |



✕ Machining of housings: see pages 48-49

**17WE3...-T/M...N** Turcon® Excluder® 2 wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side holds back the residual oil film passing the rod seal.

This wiper is composed of a dynamic PTFE ring with a scraper lip respectively sealing lip positioned back-to-back.

The standard PTFE material for this wiper is T46 which assures low friction and high speed performance and has also high compatibility with nearly all media due to its chemical resistance which exceeds that of all other thermoplastics and elastomers.

The elastomer O-ring on the static side works as an energising ring and pressurises the scraper lips against the sliding surface and thereby can also compensate deflections of the piston rod. If necessary, different O-ring materials can be chosen to suit the application.

The scraper is preferably used in conjunction with rod seals with a hydrodynamic **back-pumping function** or a drainage channel must be opened in this area.

**Operating conditions**

✕ see page 8

|             |                   |
|-------------|-------------------|
| Temperature | -30°C to 100°C    |
| Speed       | ≤ 15 m/s          |
| Fluids      | ✕ see pages 22-45 |

**Materials**

✕ see pages 54-59

|                           |                     |
|---------------------------|---------------------|
| Dynamic sealing element ① | Turcon® T46         |
|                           | Turcon® M12         |
| Energising element ②      | NBR 70 Sh A: code N |

**Assembly**

✕ see pages 54-59

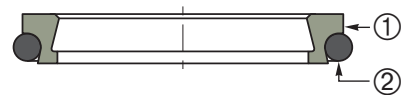
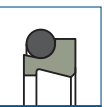
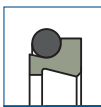
O-ring and dynamic sealing element may easily be mounted into the grooved housing (above 30 mm)

**Advantages**

- High speed performance
- Low running friction
- No stick-slip and extended service life
- Can compensate rod deflections
- Very good scraping effect against impurities and also from the inside against the residual oil film
- Suitable for heavy duty applications
- High chemical compatibility with the right O-ring
- Large temperature range -45°C up to 180°C with the right O-ring and Turcon T46

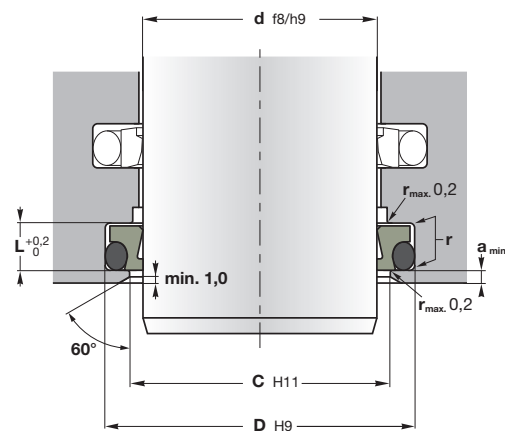
| Serie | D (mm)         |                | L (mm) | D (mm)   | C (mm)  | a min. (mm) | O-ring C/S ② |
|-------|----------------|----------------|--------|----------|---------|-------------|--------------|
|       | Standard range | Extended range |        |          |         |             |              |
| WE30  | 6 → 11,9       | 6 → 130,9      | 3,7    | d + 4,8  | d + 1,5 | 2           | 1,78         |
| WE31  | 12 → 64,9      | 10 → 245,9     | 5      | d + 6,8  | d + 1,5 | 2           | 2,62         |
| WE32  | 65 → 250,9     | 25 → 400,9     | 6      | d + 8,8  | d + 1,5 | 3           | 3,53         |
| WE33  | 251 → 420,9    | 40 → 655,9     | 8,4    | d + 12,2 | d + 2   | 4           | 5,34         |
| WE34  | 421 → 650,9    | 110 → 655,9    | 11     | d + 16   | d + 2   | 4           | 7            |
| WE35  | 651 → 999,9    | 140 → 999,9    | 14     | d + 20   | d + 2,5 | 5           | 8,4          |
| WE35X | > 1000         |                | 14     | d + 20   | d + 2,5 | 5           | 8,4          |

| d   | D     | L   | C     | r   | a min. | O-ring NBR 70 Sh A | ISO 6195/D | ISO 3320 | Reference        |
|-----|-------|-----|-------|-----|--------|--------------------|------------|----------|------------------|
| 6   | 10,8  | 3,7 | 7,5   | 0,4 | 2      | 7,65 x 1,78        | •          | •        | 17WE3000060-T46N |
| 8   | 12,8  | 3,7 | 9,5   | 0,4 | 2      | 9,5 x 1,8          | •          | •        | 17WE3000080-T46N |
| 10  | 14,8  | 3,7 | 11,5  | 0,4 | 2      | 11,8 x 1,8         | •          | •        | 17WE3000100-M12N |
| 10  | 14,8  | 3,7 | 11,5  | 0,4 | 2      | 11,8 x 1,8         | •          | •        | 17WE3000100-T46N |
| 12  | 18,8  | 5   | 13,5  | 0,8 | 2      | 13,94 x 2,62       | •          | •        | 17WE3100120-T46N |
| 14  | 20,8  | 5   | 15,5  | 0,8 | 2      | 15,54 x 2,62       | •          | •        | 17WE3100140-T46N |
| 15  | 21,8  | 5   | 16,5  | 0,8 | 2      | 17,12 x 2,62       | •          | •        | 17WE3100150-T46N |
| 16  | 22,8  | 5   | 17,5  | 0,8 | 2      | 18 x 2,65          | •          | •        | 17WE3100160-T46N |
| 18  | 24,8  | 5   | 19,5  | 0,8 | 2      | 20,29 x 2,62       | •          | •        | 17WE3100180-T46N |
| 20  | 26,8  | 5   | 21,5  | 0,8 | 2      | 21,89 x 2,62       | •          | •        | 17WE3100200-T46N |
| 22  | 28,8  | 5   | 23,5  | 0,8 | 2      | 23,47 x 2,62       | •          | •        | 17WE3100220-T46N |
| 25  | 31,8  | 5   | 26,5  | 0,8 | 2      | 26,64 x 2,62       | •          | •        | 17WE3100250-T46N |
| 28  | 34,8  | 5   | 29,5  | 0,8 | 2      | 29,82 x 2,62       | •          | •        | 17WE3100280-T46N |
| 30  | 36,8  | 5   | 31,5  | 0,8 | 2      | 31,42 x 2,62       | •          | •        | 17WE3100300-T46N |
| 32  | 38,8  | 5   | 33,5  | 0,8 | 2      | 34,59 x 2,62       | •          | •        | 17WE3100320-T46N |
| 35  | 41,8  | 5   | 36,5  | 0,8 | 2      | 36,17 x 2,62       | •          | •        | 17WE3100350-T46N |
| 36  | 42,8  | 5   | 37,5  | 0,8 | 2      | 37,77 x 2,62       | •          | •        | 17WE3100360-T46N |
| 40  | 46,8  | 5   | 41,5  | 0,8 | 2      | 42,52 x 2,62       | •          | •        | 17WE3100400-T46N |
| 42  | 48,8  | 5   | 43,5  | 0,8 | 2      | 44,12 x 2,62       | •          | •        | 17WE3100420-T46N |
| 45  | 51,8  | 5   | 46,5  | 0,8 | 2      | 47,29 x 2,62       | •          | •        | 17WE3100450-T46N |
| 50  | 56,8  | 5   | 51,5  | 0,8 | 2      | 52,07 x 2,62       | •          | •        | 17WE3100500-T46N |
| 55  | 61,8  | 5   | 56,5  | 0,8 | 2      | 56,82 x 2,62       | •          | •        | 17WE3100550-T46N |
| 56  | 62,8  | 5   | 57,5  | 0,8 | 2      | 58,42 x 2,62       | •          | •        | 17WE3100560-T46N |
| 60  | 66,8  | 5   | 61,5  | 0,8 | 2      | 61,6 x 2,62        | •          | •        | 17WE3100600-T46N |
| 63  | 69,8  | 5   | 64,5  | 0,8 | 2      | 64,77 x 2,62       | •          | •        | 17WE3100630-T46N |
| 65  | 73,8  | 6   | 66,5  | 1   | 3      | 66,27 x 3,53       | •          | •        | 17WE3200650-T46N |
| 70  | 78,8  | 6   | 71,5  | 1   | 3      | 72,62 x 3,53       | •          | •        | 17WE3200700-T46N |
| 75  | 83,8  | 6   | 76,5  | 1   | 3      | 75,79 x 3,53       | •          | •        | 17WE3200750-T46N |
| 80  | 88,8  | 6   | 81,5  | 1   | 3      | 82,14 x 3,53       | •          | •        | 17WE3200800-T46N |
| 85  | 93,8  | 6   | 86,5  | 1   | 3      | 85,32 x 3,53       | •          | •        | 17WE3200850-T46N |
| 90  | 98,8  | 6   | 91,5  | 1   | 3      | 91,67 x 3,53       | •          | •        | 17WE3200900-T46N |
| 95  | 103,8 | 6   | 96,5  | 1   | 3      | 98,02 x 3,53       | •          | •        | 17WE3200950-T46N |
| 100 | 108,8 | 6   | 101,5 | 1   | 3      | 101,19 x 3,53      | •          | •        | 17WE3201000-T46N |
| 105 | 113,8 | 6   | 106,5 | 1   | 3      | 107,54 x 3,53      | •          | •        | 17WE3201050-T46N |
| 110 | 118,8 | 6   | 111,5 | 1   | 3      | 110,72 x 3,53      | •          | •        | 17WE3201100-T46N |
| 115 | 123,8 | 6   | 116,5 | 1   | 3      | 117,07 x 3,53      | •          | •        | 17WE3201150-T46N |
| 120 | 128,8 | 6   | 121,5 | 1   | 3      | 120,24 x 3,53      | •          | •        | 17WE3201200-T46N |
| 125 | 133,8 | 6   | 126,5 | 1   | 3      | 126,59 x 3,53      | •          | •        | 17WE3201250-T46N |
| 130 | 138,8 | 6   | 131,5 | 1   | 3      | 132,94 x 3,53      | •          | •        | 17WE3201300-T46N |
| 135 | 143,8 | 6   | 136,5 | 1   | 3      | 136,12 x 3,53      | •          | •        | 17WE3201350-T46N |
| 140 | 148,8 | 6   | 141,5 | 1   | 3      | 142,47 x 3,53      | •          | •        | 17WE3201400-T46N |
| 150 | 158,8 | 6   | 151,5 | 1   | 3      | 151,99 x 3,53      | •          | •        | 17WE3201500-T46N |
| 160 | 168,8 | 6   | 161,5 | 1   | 3      | 158,34 x 3,53      | •          | •        | 17WE3201600-T46N |
| 170 | 178,8 | 6   | 171,5 | 1   | 3      | 171,04 x 3,53      | •          | •        | 17WE3201700-T46N |
| 180 | 188,8 | 6   | 181,5 | 1   | 3      | 177,39 x 3,53      | •          | •        | 17WE3201800-T46N |
| 183 | 191,8 | 6   | 184,5 | 1   | 3      | 183,74 x 3,53      | •          | •        | 17WE3201830-T46N |
| 190 | 198,8 | 6   | 191,5 | 1   | 3      | 196,44 x 3,53      | •          | •        | 17WE3201900-T46N |
| 200 | 208,8 | 6   | 201,5 | 1   | 3      | 202,79 x 3,53      | •          | •        | 17WE3202000-T46N |

**17WE3...-T/M...N**

## Example of item code

|               |               |                 |                      |   |            |            |
|---------------|---------------|-----------------|----------------------|---|------------|------------|
| 17            | WE31          | 0               | 0500                 | - | T46        | N          |
| Sealtech code | Profile serie | Type (standard) | Diameter d (mm x 10) |   | Material ① | Material ② |



✕ **Machining of housings:** see pages 48-49

**17WE3...-T/M...N** Turcon® Excluder® 2 wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side holds back the residual oil film passing the rod seal.

This wiper is composed of a dynamic PTFE ring with a scraper lip respectively sealing lip positioned back-to-back.

The standard PTFE material for this wiper is T46 which assures low friction and high speed performance and has also high compatibility with nearly all media due to its chemical resistance which exceeds that of all other thermoplastics and elastomers.

The elastomer O-ring on the static side works as an energising ring and pressurises the scraper lips against the sliding surface and thereby can also compensate deflections of the piston rod. If necessary, different O-ring materials can be chosen to suit the application.

The scraper is preferably used in conjunction with rod seals with a hydrodynamic **back-pumping function** or a drainage channel must be opened in this area.

**Operating conditions** ✕ see page 8

|             |                   |
|-------------|-------------------|
| Temperature | -30°C to 100°C    |
| Speed       | ≤ 15 m/s          |
| Fluids      | ✕ see pages 22-45 |

**Materials** ✕ see pages 54-59

|                           |                     |
|---------------------------|---------------------|
| Dynamic sealing element ① | Turcon® T46         |
|                           | Turcon® M12         |
| Energising element ②      | NBR 70 Sh A: code N |

**Assembly** ✕ see pages 54-59

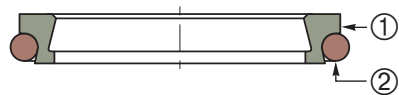
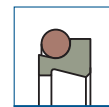
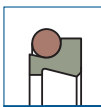
O-ring and dynamic sealing element may easily be mounted into the grooved housing (above 30 mm)

**Advantages**

- High speed performance
- Low running friction
- No stick-slip and extended service life
- Can compensate rod deflections
- Very good scraping effect against impurities and also from the inside against the residual oil film
- Suitable for heavy duty applications
- High chemical compatibility with the right O-ring
- Large temperature range -45°C up to 180°C with the right O-ring and Turcon T46

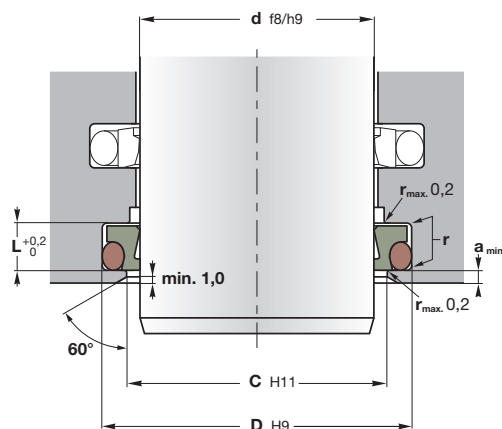
| Serie | D (mm)         |                | L (mm) | D (mm)   | C (mm)  | a min. (mm) | O-ring C/S ② |
|-------|----------------|----------------|--------|----------|---------|-------------|--------------|
|       | Standard range | Extended range |        |          |         |             |              |
| WE30  | 6 → 11,9       | 6 → 130,9      | 3,7    | d + 4,8  | d + 1,5 | 2           | 1,78         |
| WE31  | 12 → 64,9      | 10 → 245,9     | 5      | d + 6,8  | d + 1,5 | 2           | 2,62         |
| WE32  | 65 → 250,9     | 25 → 400,9     | 6      | d + 8,8  | d + 1,5 | 3           | 3,53         |
| WE33  | 251 → 420,9    | 40 → 655,9     | 8,4    | d + 12,2 | d + 2   | 4           | 5,34         |
| WE34  | 421 → 650,9    | 110 → 655,9    | 11     | d + 16   | d + 2   | 4           | 7            |
| WE35  | 651 → 999,9    | 140 → 999,9    | 14     | d + 20   | d + 2,5 | 5           | 8,4          |
| WE35X | > 1000         |                | 14     | d + 20   | d + 2,5 | 5           | 8,4          |

| d   | D     | L   | C     | r   | a min. | O-ring NBR 70 Sh A | ISO 6195/D | ISO 3320 | Reference        |
|-----|-------|-----|-------|-----|--------|--------------------|------------|----------|------------------|
| 205 | 213,8 | 6   | 206,5 | 1   | 3      | 209,14 x 3,53      |            |          | 17WE3202050-T46N |
| 210 | 218,8 | 6   | 211,5 | 1   | 3      | 215,49 x 3,53      |            |          | 17WE3202100-M12N |
| 210 | 218,8 | 6   | 211,5 | 1   | 3      | 215,49 x 3,53      |            |          | 17WE3202100-T46N |
| 220 | 228,8 | 6   | 221,5 | 1   | 3      | 221,84 x 3,53      |            | •        | 17WE3202200-T46N |
| 230 | 238,8 | 6   | 231,5 | 1   | 3      | 228,19 x 3,53      |            |          | 17WE3202300-T46N |
| 240 | 248,8 | 6   | 241,5 | 1   | 3      | 240,89 x 3,53      |            |          | 17WE3202400-T46N |
| 250 | 258,8 | 6   | 251,5 | 1   | 3      | 253,59 x 3,53      |            | •        | 17WE3202500-M12N |
| 250 | 258,8 | 6   | 251,5 | 1   | 3      | 253,59 x 3,53      |            | •        | 17WE3202500-T46N |
| 260 | 272,2 | 8,4 | 262   | 1,5 | 4      | 253,37 x 5,33      |            |          | 17WE3302600-T46N |
| 275 | 287,2 | 8,4 | 277   | 1,5 | 4      | 278,77 x 5,33      |            |          | 17WE3302750-T46N |
| 280 | 292,2 | 8,4 | 282   | 1,5 | 4      | 291,47 x 5,33      |            | •        | 17WE3302800-T46N |
| 300 | 312,2 | 8,4 | 302   | 1,5 | 4      | 304,17 x 5,33      |            |          | 17WE3303000-T46N |
| 400 | 412,2 | 8,4 | 402   | 1,5 | 4      | 405,26 x 5,33      |            |          | 17WE3304000-T46N |

**17WE3...-T/M...V**

## Example of item code

|               |               |                 |                      |   |            |            |
|---------------|---------------|-----------------|----------------------|---|------------|------------|
| 17            | WE31          | 0               | 0500                 | - | T46        | V          |
| Sealtech code | Profile serie | Type (standard) | Diameter d (mm x 10) |   | Material ① | Material ② |



✕ Machining of housings: see pages 48-49

**More information**

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

Please contact us for applications approaching maximum values.

**17WE3...-T/M...V** Turcon® Excluder® 2 wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side holds back the residual oil film passing the rod seal.

This wiper is composed of a dynamic PTFE ring with a scraper lip respectively sealing lip positioned back-to-back.

The standard PTFE material for this wiper is T46 which assures low friction and high speed performance and has also high compatibility with nearly all media due to its chemical resistance which exceeds that of all other thermoplastics and elastomers.

The elastomer O-ring on the static side works as an energising ring and pressurises the scraper lips against the sliding surface and thereby can also compensate deflections of the piston rod. If necessary, different O-ring materials can be chosen to suit the application.

The scraper is preferably used in conjunction with rod seals with a hydrodynamic **back-pumping function** or a drainage channel must be opened in this area.

**Operating conditions**

✕ see page 8

|             |                   |
|-------------|-------------------|
| Temperature | -20°C to 200°C    |
| Speed       | ≤ 15 m/s          |
| Fluids      | ✕ see pages 22-45 |

**Materials**

✕ see pages 54-59

|                           |                     |
|---------------------------|---------------------|
| Dynamic sealing element ① | Turcon® T46         |
|                           | Turcon® M12         |
| Energising element ②      | FPM 75 Sh A: code V |

**Assembly**

✕ see pages 54-59

O-ring and dynamic sealing element may easily be mounted into the grooved housing (above 30 mm)

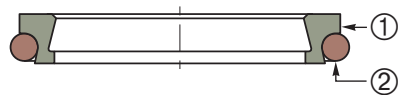
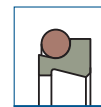
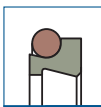
**Advantages**

- High speed performance
- Low running friction
- No stick-slip and extended service life
- Can compensate rod deflections
- Very good scraping effect against impurities and also from the inside against the residual oil film
- Suitable for heavy duty applications
- High chemical compatibility with the right O-ring
- Large temperature range -45°C up to 180°C with the right O-ring and Turcon T46

| Serie | D (mm)         |                | L (mm) | D (mm)   | C (mm)  | a min. (mm) | O-ring C/S ② |
|-------|----------------|----------------|--------|----------|---------|-------------|--------------|
|       | Standard range | Extended range |        |          |         |             |              |
| WE30  | 6 → 11,9       | 6 → 130,9      | 3,7    | d + 4,8  | d + 1,5 | 2           | 1,78         |
| WE31  | 12 → 64,9      | 10 → 245,9     | 5      | d + 6,8  | d + 1,5 | 2           | 2,62         |
| WE32  | 65 → 250,9     | 25 → 400,9     | 6      | d + 8,8  | d + 1,5 | 3           | 3,53         |
| WE33  | 251 → 420,9    | 40 → 655,9     | 8,4    | d + 12,2 | d + 2   | 4           | 5,34         |
| WE34  | 421 → 650,9    | 110 → 655,9    | 11     | d + 16   | d + 2   | 4           | 7            |
| WE35  | 651 → 999,9    | 140 → 999,9    | 14     | d + 20   | d + 2,5 | 5           | 8,4          |
| WE35X | > 1000         |                | 14     | d + 20   | d + 2,5 | 5           | 8,4          |

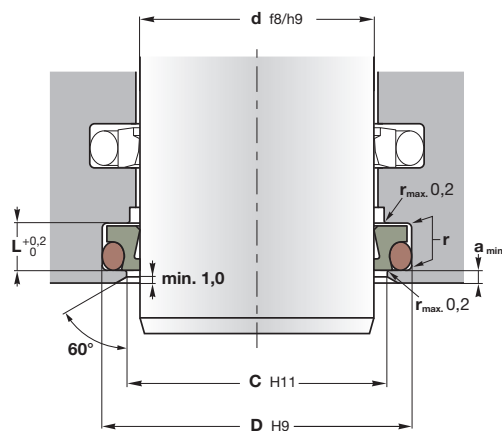
| d   | D     | L   | C     | r   | a min. | O-ring FPM 75 Sh A | ISO 6195/D | ISO 3320 | Reference        |
|-----|-------|-----|-------|-----|--------|--------------------|------------|----------|------------------|
| 6   | 10,8  | 3,7 | 7,5   | 0,4 | 2      | 7,65 x 1,78        | •          | •        | 17WE3000060-T46V |
| 8   | 12,8  | 3,7 | 9,5   | 0,4 | 2      | 9,5 x 1,8          | •          | •        | 17WE3000080-T46V |
| 10  | 14,8  | 3,7 | 11,5  | 0,4 | 2      | 11,8 x 1,8         | •          | •        | 17WE3000100-M12V |
| 10  | 14,8  | 3,7 | 11,5  | 0,4 | 2      | 11,8 x 1,8         | •          | •        | 17WE3000100-T46V |
| 12  | 18,8  | 5   |       | 0,8 | 2      | 13,94 x 2,62       | •          | •        | 17WE3100120-T46V |
| 14  | 20,8  | 5   | 15,5  | 0,8 | 2      | 15,54 x 2,62       | •          | •        | 17WE3100140-T46V |
| 15  | 21,8  | 5   | 16,5  | 0,8 | 2      | 17,12 x 2,62       |            |          | 17WE3100150-T46V |
| 16  | 22,8  | 5   |       | 0,8 | 2      | 18 x 2,65          | •          | •        | 17WE3100160-T46V |
| 18  | 24,8  | 5   | 19,5  | 0,8 | 2      | 20,29 x 2,62       | •          | •        | 17WE3100180-T46V |
| 20  | 26,8  | 5   |       | 0,8 | 2      | 21,89 x 2,62       | •          | •        | 17WE3100200-T46V |
| 22  | 28,8  | 5   |       | 0,8 | 2      | 23,47 x 2,62       | •          | •        | 17WE3100220-T46V |
| 25  | 31,8  | 5   |       | 0,8 | 2      | 26,64 x 2,62       | •          | •        | 17WE3100250-T46V |
| 28  | 34,8  | 5   |       | 0,8 | 2      | 29,82 x 2,62       | •          | •        | 17WE3100280-T46V |
| 30  | 36,8  | 5   |       | 0,8 | 2      | 31,42 x 2,62       |            |          | 17WE3100300-T46V |
| 32  | 38,8  | 5   | 33,5  | 0,8 | 2      | 34,59 x 2,62       | •          | •        | 17WE3100320-T46V |
| 35  | 41,8  | 5   |       | 0,8 | 2      | 36,17 x 2,62       |            |          | 17WE3100350-T46V |
| 36  | 42,8  | 5   |       | 0,8 | 2      | 37,77 x 2,62       | •          | •        | 17WE3100360-T46V |
| 40  | 46,8  | 5   |       | 0,8 | 2      | 42,52 x 2,62       | •          | •        | 17WE3100400-T46V |
| 42  | 48,8  | 5   | 43,5  | 0,8 | 2      | 44,12 x 2,62       |            |          | 17WE3100420-T46V |
| 45  | 51,8  | 5   |       | 0,8 | 2      | 47,29 x 2,62       |            |          | 17WE3100450-T46V |
| 50  | 56,8  | 5   |       | 0,8 | 2      | 52,07 x 2,62       | •          | •        | 17WE3100500-T46V |
| 55  | 61,8  | 5   |       | 0,8 | 2      | 56,82 x 2,62       |            |          | 17WE3100550-T46V |
| 56  | 62,8  | 5   | 57,5  | 0,8 | 2      | 58,42 x 2,62       | •          | •        | 17WE3100560-T46V |
| 60  | 66,8  | 5   |       | 0,8 | 2      | 61,6 x 2,62        |            |          | 17WE3100600-T46V |
| 63  | 69,8  | 5   | 64,5  | 0,8 | 2      | 64,77 x 2,62       | •          | •        | 17WE3100630-T46V |
| 65  | 73,8  | 6   | 66,5  | 1   | 3      | 66,27 x 3,53       |            |          | 17WE3200650-T46V |
| 70  | 78,8  | 6   |       | 1   | 3      | 72,62 x 3,53       |            |          | 17WE3200700-T46V |
| 75  | 83,8  | 6   | 76,5  | 1   | 3      | 75,79 x 3,53       |            |          | 17WE3200750-T46V |
| 80  | 88,8  | 6   | 81,5  | 1   | 3      | 82,14 x 3,53       | •          |          | 17WE3200800-T46V |
| 85  | 93,8  | 6   | 86,5  | 1   | 3      | 85,32 x 3,53       |            |          | 17WE3200850-T46V |
| 90  | 98,8  | 6   |       | 1   | 3      | 91,67 x 3,53       | •          |          | 17WE3200900-T46V |
| 95  | 103,8 | 6   | 96,5  | 1   | 3      | 98,02 x 3,53       |            |          | 17WE3200950-T46V |
| 100 | 108,8 | 6   |       | 1   | 3      | 101,19 x 3,53      | •          |          | 17WE3201000-T46V |
| 105 | 113,8 | 6   | 106,5 | 1   | 3      | 107,54 x 3,53      |            |          | 17WE3201050-T46V |
| 110 | 118,8 | 6   |       | 1   | 3      | 110,72 x 3,53      | •          |          | 17WE3201100-T46V |
| 115 | 123,8 | 6   | 116,5 | 1   | 3      | 117,07 x 3,53      |            |          | 17WE3201150-T46V |
| 120 | 128,8 | 6   | 121,5 | 1   | 3      | 120,24 x 3,53      |            |          | 17WE3201200-T46V |
| 125 | 133,8 | 6   | 126,5 | 1   | 3      | 126,59 x 3,53      | •          |          | 17WE3201250-T46V |
| 130 | 138,8 | 6   | 131,5 | 1   | 3      | 132,94 x 3,53      |            |          | 17WE3201300-T46V |
| 135 | 143,8 | 6   | 136,5 | 1   | 3      | 136,12 x 3,53      |            |          | 17WE3201350-T46V |
| 140 | 148,8 | 6   | 141,5 | 1   | 3      | 142,47 x 3,53      | •          |          | 17WE3201400-T46V |
| 150 | 158,8 | 6   | 151,5 | 1   | 3      | 151,99 x 3,53      |            |          | 17WE3201500-T46V |
| 160 | 168,8 | 6   | 161,5 | 1   | 3      | 158,34 x 3,53      | •          |          | 17WE3201600-T46V |
| 170 | 178,8 | 6   | 171,5 | 1   | 3      | 171,04 x 3,53      |            |          | 17WE3201700-T46V |
| 180 | 188,8 | 6   | 181,5 | 1   | 3      | 177,39 x 3,53      | •          |          | 17WE3201800-T46V |
| 183 | 191,8 | 6   | 184,5 | 1   | 3      | 183,74 x 3,53      |            |          | 17WE3201830-T46V |
| 190 | 198,8 | 6   | 191,5 | 1   | 3      | 196,44 x 3,53      |            |          | 17WE3201900-T46V |
| 200 | 208,8 | 6   | 201,5 | 1   | 3      | 202,79 x 3,53      | •          |          | 17WE3202000-T46V |



**17WE3...-T/M...V**

## Example of item code

|               |               |                 |                      |   |            |            |
|---------------|---------------|-----------------|----------------------|---|------------|------------|
| 17            | WE31          | 0               | 0500                 | - | T46        | V          |
| Sealtech code | Profile serie | Type (standard) | Diameter d (mm x 10) |   | Material ① | Material ② |



✕ **Machining of housings:** see pages 48-49

**More information**

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

**Please contact us for applications approaching maximum values.**

**17WE3...-T/M...V** Turcon® Excluder® 2 wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side holds back the residual oil film passing the rod seal.

This wiper is composed of a dynamic PTFE ring with a scraper lip respectively sealing lip positioned back-to-back.

The standard PTFE material for this wiper is T46 which assures low friction and high speed performance and has also high compatibility with nearly all media due to its chemical resistance which exceeds that of all other thermoplastics and elastomers.

The elastomer O-ring on the static side works as an energising ring and pressurises the scraper lips against the sliding surface and thereby can also compensate deflections of the piston rod. If necessary, different O-ring materials can be chosen to suit the application.

The scraper is preferably used in conjunction with rod seals with a hydrodynamic **back-pumping function** or a drainage channel must be opened in this area.

**Operating conditions**

✕ see page 8

|             |                   |
|-------------|-------------------|
| Temperature | -20°C to 200°C    |
| Speed       | ≤ 15 m/s          |
| Fluids      | ✕ see pages 22-45 |

**Materials**

✕ see pages 54-59

|                           |                     |
|---------------------------|---------------------|
| Dynamic sealing element ① | Turcon® T46         |
|                           | Turcon® M12         |
| Energising element ②      | FPM 75 Sh A: code V |

**Assembly**

✕ see pages 54-59

O-ring and dynamic sealing element may easily be mounted into the grooved housing (above 30 mm)

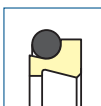
**Advantages**

- High speed performance
- Low running friction
- No stick-slip and extended service life
- Can compensate rod deflections
- Very good scraping effect against impurities and also from the inside against the residual oil film
- Suitable for heavy duty applications
- High chemical compatibility with the right O-ring
- Large temperature range -45°C up to 180°C with the right O-ring and Turcon T46

| Serie | D (mm)         |                | L (mm) | D (mm)   | C (mm)  | a min. (mm) | O-ring C/S ② |
|-------|----------------|----------------|--------|----------|---------|-------------|--------------|
|       | Standard range | Extended range |        |          |         |             |              |
| WE30  | 6 → 11,9       | 6 → 130,9      | 3,7    | d + 4,8  | d + 1,5 | 2           | 1,78         |
| WE31  | 12 → 64,9      | 10 → 245,9     | 5      | d + 6,8  | d + 1,5 | 2           | 2,62         |
| WE32  | 65 → 250,9     | 25 → 400,9     | 6      | d + 8,8  | d + 1,5 | 3           | 3,53         |
| WE33  | 251 → 420,9    | 40 → 655,9     | 8,4    | d + 12,2 | d + 2   | 4           | 5,34         |
| WE34  | 421 → 650,9    | 110 → 655,9    | 11     | d + 16   | d + 2   | 4           | 7            |
| WE35  | 651 → 999,9    | 140 → 999,9    | 14     | d + 20   | d + 2,5 | 5           | 8,4          |
| WE35X | > 1000         |                | 14     | d + 20   | d + 2,5 | 5           | 8,4          |

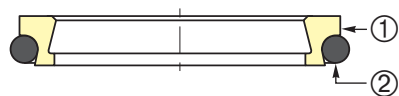
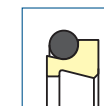
| d   | D     | L   | C     | r   | a min. | O-ring FPM 75 Sh A | ISO 6195/D | ISO 3320 | Reference        |
|-----|-------|-----|-------|-----|--------|--------------------|------------|----------|------------------|
| 205 | 213,8 | 6   | 206,5 | 1   | 3      | 209,14 x 3,53      |            |          | 17WE3202050-T46V |
| 210 | 218,8 | 6   | 211,5 | 1   | 3      | 215,49 x 3,53      |            |          | 17WE3202100-M12V |
| 210 | 218,8 | 6   | 211,5 | 1   | 3      | 215,49 x 3,53      |            |          | 17WE3202100-T46V |
| 220 | 228,8 | 6   | 221,5 | 1   | 3      | 221,84 x 3,53      |            | •        | 17WE3202200-T46V |
| 230 | 238,8 | 6   | 231,5 | 1   | 3      | 228,19 x 3,53      |            |          | 17WE3202300-T46V |
| 240 | 248,8 | 6   | 241,5 | 1   | 3      | 240,89 x 3,53      |            |          | 17WE3202400-T46V |
| 250 | 258,8 | 6   | 251,5 | 1   | 3      | 253,59 x 3,53      |            | •        | 17WE3202500-M12V |
| 250 | 258,8 | 6   | 251,5 | 1   | 3      | 253,59 x 3,53      |            | •        | 17WE3202500-T46V |
| 260 | 272,2 | 8,4 | 262   | 1,5 | 4      | 253,37 x 5,33      |            |          | 17WE3302600-T46V |
| 275 | 287,2 | 8,4 | 277   | 1,5 | 4      | 278,77 x 5,33      |            |          | 17WE3302750-T46V |
| 280 | 292,2 | 8,4 | 282   | 1,5 | 4      | 291,47 x 5,33      |            | •        | 17WE3302800-T46V |
| 300 | 312,2 | 8,4 | 302   | 1,5 | 4      | 304,17 x 5,33      |            |          | 17WE3303000-T46V |
| 400 | 412,2 | 8,4 | 402   | 1,5 | 4      | 405,26 x 5,33      |            |          | 17WE3304000-T46V |





17WE3...-Z...N

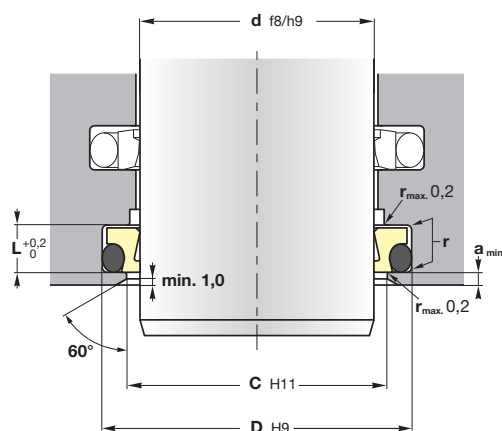
Zurcon® Excluder® 2

SEALTECH  
Hydraulic Seals Technology

17WE3...-Z...N

Example of item code

|               |               |                 |                      |   |            |            |
|---------------|---------------|-----------------|----------------------|---|------------|------------|
| 17            | WE31          | 0               | 0500                 | - | Z53        | N          |
| Sealtech code | Profile serie | Type (standard) | Diameter d (mm x 10) |   | Material ① | Material ② |



✕ Machining of housings: see pages 48-49

**More information**

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

Please contact us for applications approaching maximum values.

**17WE3...-Z...N** Zurcon® Excluder® 2 wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side holds back the residual oil film passing the rod seal.

This wiper is composed of a dynamic PTFE ring with a scraper lip respectively sealing lip positioned back-to-back.

The standard PTFE material for this wiper is Z53 which assures low friction and high speed performance and has also high compatibility with nearly all media due to his chemical resistance which exceeds that of all other thermoplastics and elastomers.

The elastomer O-ring on the static side works as an energising ring and pressurises the scraper lips against the sliding surface and thereby can also compensate deflections of the piston rod. If necessary, different O-ring materials can be chosen to suit the application.

The scraper is preferably used in conjunction with rod seals with a hydrodynamic **back-pumping function** or a drainage channel must be opened in this area.

**Operating conditions**

✕ see page 8

Temperature -30°C to 100°C  
Speed ≤ 15 m/s  
Fluids ✕ see pages 22-45

**Materials**

✕ see pages 54-59

Dynamic sealing element ① Zurcon® Z53  
Energising element ② NBR 70 Sh A: code N

**Assembly**

✕ see pages 54-59

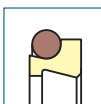
O-ring and dynamic sealing element may easily be mounted into the grooved housing (above 30 mm)

**Advantages**

- High speed performance
- Low running friction
- No stick-slip and extended service life
- Can compensate rod deflections
- Very good scraping effect against impurities and also from the inside against the residual oil film
- Suitable for heavy duty applications
- High chemical compatibility with the right O-ring
- Large temperature range -45°C up to 180°C with the right O-ring and Turcon T46

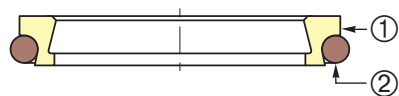
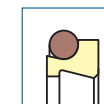
| Serie | D (mm)         |                | L (mm) | D (mm)   | C (mm)  | a min. (mm) | O-ring C/S ② |
|-------|----------------|----------------|--------|----------|---------|-------------|--------------|
|       | Standard range | Extended range |        |          |         |             |              |
| WE30  | 6 → 11,9       | 6 → 130,9      | 3,7    | d + 4,8  | d + 1,5 | 2           | 1,78         |
| WE31  | 12 → 64,9      | 10 → 245,9     | 5      | d + 6,8  | d + 1,5 | 2           | 2,62         |
| WE32  | 65 → 250,9     | 25 → 400,9     | 6      | d + 8,8  | d + 1,5 | 3           | 3,53         |
| WE33  | 251 → 420,9    | 40 → 655,9     | 8,4    | d + 12,2 | d + 2   | 4           | 5,34         |
| WE34  | 421 → 650,9    | 110 → 655,9    | 11     | d + 16   | d + 2   | 4           | 7            |
| WE35  | 651 → 999,9    | 140 → 999,9    | 14     | d + 20   | d + 2,5 | 5           | 8,4          |
| WE35X | > 1000         |                | 14     | d + 20   | d + 2,5 | 5           | 8,4          |

| d  | D    | L | C    | r   | a min. | O-ring<br>NBR 70 Sh A | ISO<br>6195/D | ISO<br>3320 | Reference        |
|----|------|---|------|-----|--------|-----------------------|---------------|-------------|------------------|
| 63 | 69,8 | 5 | 64,5 | 0,8 | 2      | 64,77 x 2,62          | •             | •           | 17WE3100630-Z53N |



17WE3...-Z...V

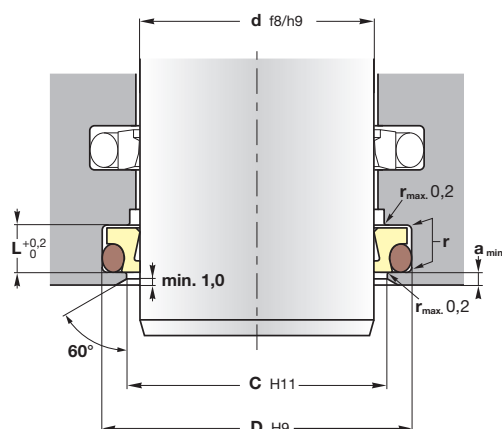
Zurcon® Excluder® 2

SEALTECH  
Hydraulic Seals Technology

17WE3...-Z...V

Example of item code

|               |               |                 |                      |   |            |            |
|---------------|---------------|-----------------|----------------------|---|------------|------------|
| 17            | WE31          | 0               | 0500                 | - | Z53        | V          |
| Sealtech code | Profile serie | Type (standard) | Diameter d (mm x 10) |   | Material ① | Material ② |



✕ Machining of housings: see pages 48-49

**More information**

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

Please contact us for applications approaching maximum values.

**17WE3...-Z...N** Zurcon® Excluder® 2 wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side holds back the residual oil film passing the rod seal.

This wiper is composed of a dynamic PTFE ring with a scraper lip respectively sealing lip positioned back-to-back.

The standard PTFE material for this wiper is Z53 which assures low friction and high speed performance and has also high compatibility with nearly all media due to his chemical resistance which exceeds that of all other thermoplastics and elastomers.

The elastomer O-ring on the static side works as an energising ring and pressurises the scraper lips against the sliding surface and thereby can also compensate deflections of the piston rod. If necessary, different O-ring materials can be chosen to suit the application.

The scraper is preferably used in conjunction with rod seals with a hydrodynamic **back-pumping function** or a drainage channel must be opened in this area.

**Operating conditions**

✕ see page 8

Temperature -20°C to 200°C  
Speed ≤ 15 m/s  
Fluids ✕ see pages 22-45

**Materials**

✕ see pages 54-59

Dynamic sealing element ① Zurcon® Z53  
Energising element ② FPM 75 Sh A: code V

**Assembly**

✕ see pages 54-59

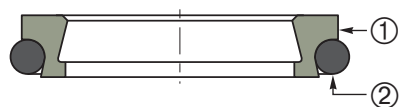
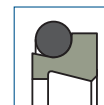
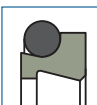
O-ring and dynamic sealing element may easily be mounted into the grooved housing (above 30 mm)

**Advantages**

- High speed performance
- Low running friction
- No stick-slip and extended service life
- Can compensate rod deflections
- Very good scraping effect against impurities and also from the inside against the residual oil film
- Suitable for heavy duty applications
- High chemical compatibility with the right O-ring
- Large temperature range -45°C up to 180°C with the right O-ring and Turcon T46

| Serie | D (mm)         |                | L (mm) | D (mm)   | C (mm)  | a min. (mm) | O-ring C/S ② |
|-------|----------------|----------------|--------|----------|---------|-------------|--------------|
|       | Standard range | Extended range |        |          |         |             |              |
| WE30  | 6 → 11,9       | 6 → 130,9      | 3,7    | d + 4,8  | d + 1,5 | 2           | 1,78         |
| WE31  | 12 → 64,9      | 10 → 245,9     | 5      | d + 6,8  | d + 1,5 | 2           | 2,62         |
| WE32  | 65 → 250,9     | 25 → 400,9     | 6      | d + 8,8  | d + 1,5 | 3           | 3,53         |
| WE33  | 251 → 420,9    | 40 → 655,9     | 8,4    | d + 12,2 | d + 2   | 4           | 5,34         |
| WE34  | 421 → 650,9    | 110 → 655,9    | 11     | d + 16   | d + 2   | 4           | 7            |
| WE35  | 651 → 999,9    | 140 → 999,9    | 14     | d + 20   | d + 2,5 | 5           | 8,4          |
| WE35X | > 1000         |                | 14     | d + 20   | d + 2,5 | 5           | 8,4          |

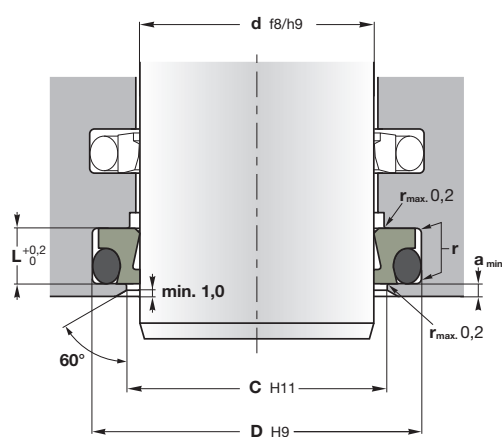
| d  | D    | L | C    | r   | a min. | O-ring FPM 75 Sh A | ISO 6195/D | ISO 3320 | Reference        |
|----|------|---|------|-----|--------|--------------------|------------|----------|------------------|
| 63 | 69,8 | 5 | 64,5 | 0,8 | 2      | 64,77 x 2,62       | •          | •        | 17WE3100630-Z53V |



## 17WE5...-T/M...N

## Example of item code

|               |               |                 |                      |   |            |            |
|---------------|---------------|-----------------|----------------------|---|------------|------------|
| 17            | WE51          | 0               | 0500                 | - | T46        | N          |
| Sealtech code | Profile serie | Type (standard) | Diameter d (mm x 10) |   | Material ① | Material ② |



✕ Machining of housings: see pages 48-49

## More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

Please contact us for applications approaching maximum values.

**17WE5...-T/M...N** Turcon® Excluder® 5 wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side holds back the residual oil film passing the rod seal.

This wiper is composed of a dynamic PTFE ring with a scraper lip respectively sealing lip positioned back-to-back.

Compared to Excluder® 2, Excluder® 5 wipers are more robust and used particularly for heavy-duty applications such as in construction machinery, presses, etc.

The standard PTFE material for this wiper is T46 which assures low friction and high speed performance and has also high compatibility with nearly all media due to his chemical resistance which exceeds that of all other thermoplastics and elastomers.

The elastomer O-ring on the static side works as an energising ring and pressurises the scraper lips against the sliding surface and thereby can also compensate deflections of the piston rod. If necessary, different O-ring materials can be chosen to suit the application.

The scraper is preferably used in conjunction with rod seals with a hydrodynamic **back-pumping** function.

## Operating conditions ✕ see page 8

|             |                   |
|-------------|-------------------|
| Temperature | -30°C to 100°C    |
| Speed       | ≤ 15 m/s          |
| Fluids      | ✕ see pages 22-45 |

## Materials ✕ see pages 54-59

|                           |                     |
|---------------------------|---------------------|
| Dynamic sealing element ① | Turcon® T46         |
| Energising element ②      | NBR 70 Sh A: code N |

## Assembly ✕ see pages 54-59

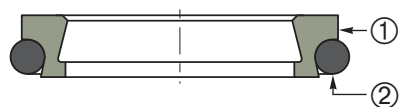
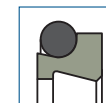
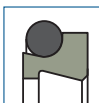
O-ring and dynamic sealing element may easily be mounted into the grooved housing (above 30 mm)

## Advantages

- High speed performance
- Low running friction
- No stick-slip and extended service life
- Can compensate rod deflections
- Very good scraping effect against impurities and also from the inside against the residual oil film
- Suitable for heavy duty applications
- High chemical compatibility with the right O-ring
- Large temperature range -45°C up to 180°C with the right O-ring and Turcon T46

| Serie | D (mm)         |                | L (mm) | D (mm)   | C (mm)  | a min. (mm) | O-ring C/S ② |
|-------|----------------|----------------|--------|----------|---------|-------------|--------------|
|       | Standard range | Extended range |        |          |         |             |              |
| WE50  | 19 → 39,9      | 19 → 100       | 4,2    | d + 7,6  | d + 1,5 | 3           | 2,62         |
| WE51  | 40 → 69,9      | 30 → 200       | 6,3    | d + 8,8  | d + 1,5 | 3           | 2,62         |
| WE52  | 70 → 139,9     | 70 → 360       | 8,1    | d + 12,2 | d + 2   | 4           | 3,53         |
| WE53  | 140 → 399,9    | 100 → 650      | 9,5    | d + 16   | d + 2,5 | 5           | 5,34         |
| WE54  | 400 → 649,9    | 200 → 650      | 14     | d + 24   | d + 2,5 | 8           | 7            |
| WE55  | 650 → 999,9    | 400 → 999,9    | 16     | d + 27,3 | d + 2,5 | 10          | 8,4          |
| WE55X | > 1000         |                | 16     | d + 27,3 | d + 2,5 | 10          | 8,4          |

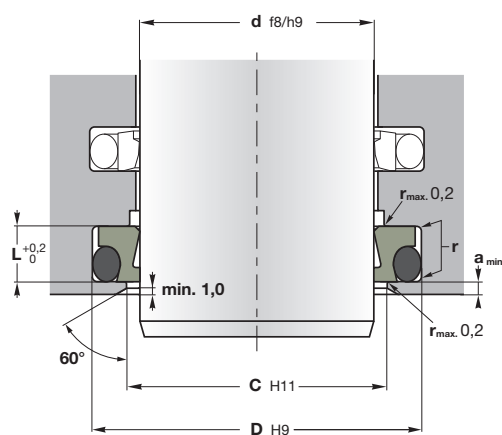
| d   | D     | L   | C     | r   | a min. | O-ring NBR 70 Sh A | ISO 6195/D | ISO 3320 | Reference        |
|-----|-------|-----|-------|-----|--------|--------------------|------------|----------|------------------|
| 20  | 27,6  | 4,2 | 21,5  | 0,8 | 3      | 21,89 x 2,62       |            |          | 17WE5000200-T46N |
| 25  | 32,6  | 4,2 | 26,5  | 0,8 | 3      | 28,24 x 2,62       |            |          | 17WE5000250-T46N |
| 28  | 35,6  | 4,2 | 29,5  | 0,8 | 3      | 29,82 x 2,62       |            |          | 17WE5000280-T46N |
| 30  | 37,6  | 4,2 | 31,5  | 0,8 | 3      | 32,99 x 2,62       |            |          | 17WE5000300-T46N |
| 32  | 39,6  | 4,2 | 33,5  | 0,8 | 3      | 34,59 x 2,62       |            |          | 17WE5000320-T46N |
| 35  | 42,6  | 4,2 | 36,5  | 0,8 | 3      | 37,77 x 2,62       |            |          | 17WE5000350-T46N |
| 36  | 43,6  | 4,2 | 37,5  | 0,8 | 3      | 37,77 x 2,62       |            |          | 17WE5000360-T46N |
| 40  | 48,8  | 6,3 | 41,5  | 1   | 3      | 44,12 x 2,62       |            |          | 17WE5100400-M12N |
| 40  | 48,8  | 6,3 | 41,5  | 1   | 3      | 44,12 x 2,62       |            |          | 17WE5100400-T46N |
| 45  | 53,8  | 6,3 | 46,5  | 1   | 3      | 48,9 x 2,62        |            |          | 17WE5100450-T46N |
| 50  | 58,8  | 6,3 | 51,5  | 1   | 3      | 53,64 x 2,62       |            |          | 17WE5100500-T46N |
| 55  | 63,8  | 6,3 | 56,5  | 1   | 3      | 58,42 x 2,62       |            |          | 17WE5100550-T46N |
| 56  | 64,8  | 6,3 | 57,5  | 1   | 3      | 59,99 x 2,62       |            |          | 17WE5100560-T46N |
| 60  | 68,8  | 6,3 | 61,5  | 1   | 3      | 63,17 x 2,62       |            |          | 17WE5100600-T46N |
| 63  | 71,8  | 6,3 | 64,5  | 1   | 3      | 66,34 x 2,62       |            |          | 17WE5100630-T46N |
| 65  | 73,8  | 6,3 | 66,5  | 1   | 3      | 67,95 x 2,62       |            |          | 17WE5100650-T46N |
| 70  | 82,2  | 8,1 | 72    | 1   | 4      | 75,79 x 3,53       |            |          | 17WE5200700-T46N |
| 75  | 87,2  | 8,1 | 77    | 1   | 4      | 78,97 x 3,53       |            |          | 17WE5200750-T46N |
| 80  | 92,2  | 8,1 | 82    | 1   | 4      | 85,32 x 3,53       |            |          | 17WE5200800-T46N |
| 85  | 97,2  | 8,1 | 87    | 1   | 4      | 88,49 x 3,53       |            |          | 17WE5200850-T46N |
| 90  | 102,2 | 8,1 | 92    | 1   | 4      | 94,84 x 3,53       |            |          | 17WE5200900-T46N |
| 100 | 112,2 | 8,1 | 102   | 1   | 4      | 104,37 x 3,53      |            |          | 17WE5201000-T46N |
| 105 | 117,2 | 8,1 | 107   | 1   | 4      | 110,72 x 3,53      |            |          | 17WE5201050-T46N |
| 110 | 122,2 | 8,1 | 112   | 1   | 4      | 113,89 x 3,53      |            |          | 17WE5201100-M12N |
| 110 | 122,2 | 8,1 | 112   | 1   | 4      | 113,89 x 3,53      |            |          | 17WE5201100-T46N |
| 115 | 127,2 | 8,1 | 117   | 1   | 4      | 120,24 x 3,53      |            |          | 17WE5201150-T46N |
| 120 | 132,2 | 8,1 | 122   | 1   | 4      | 123,42 x 3,53      |            |          | 17WE5201200-T46N |
| 125 | 137,2 | 8,1 | 127   | 1   | 4      | 129,77 x 3,53      |            |          | 17WE5201250-T46N |
| 130 | 142,2 | 8,1 | 132   | 1   | 4      | 136,12 x 3,53      |            |          | 17WE5201300-T46N |
| 135 | 147,2 | 8,1 | 137   | 1   | 4      | 139,29 x 3,53      |            |          | 17WE5201350-T46N |
| 140 | 156   | 9,5 | 142,5 | 1,5 | 5      | 145,42 x 5,34      |            |          | 17WE5301400-T46N |
| 150 | 166   | 9,5 | 152,5 | 1,5 | 5      | 151,77 x 5,34      |            |          | 17WE5301500-T46N |
| 160 | 176   | 9,5 | 162,5 | 1,5 | 5      | 164,47 x 5,34      |            |          | 17WE5301600-T46N |
| 170 | 186   | 9,5 | 172,5 | 1,5 | 5      | 177,17 x 5,34      |            |          | 17WE5301700-T46N |
| 180 | 196   | 9,5 | 182,5 | 1,5 | 5      | 183,52 x 5,34      |            |          | 17WE5301800-T46N |
| 200 | 216   | 9,5 | 202,5 | 1,5 | 5      | 202,57 x 5,34      |            |          | 17WE5302000-T46N |
| 220 | 236   | 9,5 | 222,5 | 1,5 | 5      | 221,62 x 5,34      |            |          | 17WE5302200-T46N |
| 240 | 256   | 9,5 | 242,5 | 1,5 | 5      | 247,02 x 5,34      |            |          | 17WE5302400-T46N |
| 250 | 266   | 9,5 | 252,5 | 1,5 | 5      | 253,37 x 5,34      |            |          | 17WE5302500-T46N |
| 260 | 276   | 9,5 | 262,5 | 1,5 | 5      | 266,07 x 5,34      |            |          | 17WE5302600-T46N |
| 280 | 296   | 9,5 | 282,5 | 1,5 | 5      | 278,77 x 5,34      |            |          | 17WE5302800-T46N |
| 285 | 301   | 9,5 | 287,5 | 1,5 | 5      | 291,47 x 5,34      |            |          | 17WE5302850-T46N |



## 17WE5...-T/M...N

## Example of item code

|               |               |                 |                      |   |            |            |
|---------------|---------------|-----------------|----------------------|---|------------|------------|
| 17            | WE51          | 0               | 0500                 | - | T46        | N          |
| Sealtech code | Profile serie | Type (standard) | Diameter d (mm x 10) |   | Material ① | Material ② |



✕ Machining of housings: see pages 48-49

**17WE5...-T/M...N** Turcon® Excluder® 5 wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side holds back the residual oil film passing the rod seal.

This wiper is composed of a dynamic PTFE ring with a scraper lip respectively sealing lip positioned back-to-back.

Compared to Excluder® 2, Excluder® 5 wipers are more robust and used particularly for heavy-duty applications such as in construction machinery, presses, etc.

The standard PTFE material for this wiper is T46 which assures low friction and high speed performance and has also high compatibility with nearly all media due to his chemical resistance which exceeds that of all other thermoplastics and elastomers.

The elastomer O-ring on the static side works as an energising ring and pressurises the scraper lips against the sliding surface and thereby can also compensate deflections of the piston rod. If necessary, different O-ring materials can be chosen to suit the application.

The scraper is preferably used in conjunction with rod seals with a hydrodynamic **back-pumping function**.

## Operating conditions ✕ see page 8

|             |                   |
|-------------|-------------------|
| Temperature | -30°C to 100°C    |
| Speed       | ≤ 15 m/s          |
| Fluids      | ✕ see pages 22-45 |

## Materials ✕ see pages 54-59

|                           |                     |
|---------------------------|---------------------|
| Dynamic sealing element ① | Turcon® T46         |
| Energising element ②      | NBR 70 Sh A: code N |

## Assembly ✕ see pages 54-59

O-ring and dynamic sealing element may easily be mounted into the grooved housing (above 30 mm)

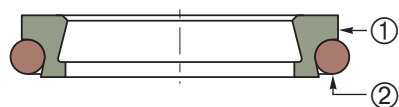
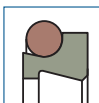
## Advantages

- High speed performance
- Low running friction
- No stick-slip and extended service life
- Can compensate rod deflections
- Very good scraping effect against impurities and also from the inside against the residual oil film
- Suitable for heavy duty applications
- High chemical compatibility with the right O-ring
- Large temperature range -45°C up to 180°C with the right O-ring and Turcon T46

| Serie | D (mm)         |                | L (mm) | D (mm)   | C (mm)  | a min. (mm) | O-ring C/S ② |
|-------|----------------|----------------|--------|----------|---------|-------------|--------------|
|       | Standard range | Extended range |        |          |         |             |              |
| WE50  | 19 → 39,9      | 19 → 100       | 4,2    | d + 7,6  | d + 1,5 | 3           | 2,62         |
| WE51  | 40 → 69,9      | 30 → 200       | 6,3    | d + 8,8  | d + 1,5 | 3           | 2,62         |
| WE52  | 70 → 139,9     | 70 → 360       | 8,1    | d + 12,2 | d + 2   | 4           | 3,53         |
| WE53  | 140 → 399,9    | 100 → 650      | 9,5    | d + 16   | d + 2,5 | 5           | 5,34         |
| WE54  | 400 → 649,9    | 200 → 650      | 14     | d + 24   | d + 2,5 | 8           | 7            |
| WE55  | 650 → 999,9    | 400 → 999,9    | 16     | d + 27,3 | d + 2,5 | 10          | 8,4          |
| WE55X | > 1000         |                | 16     | d + 27,3 | d + 2,5 | 10          | 8,4          |

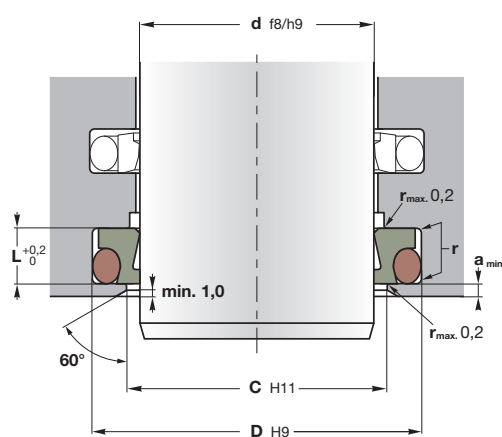
| d   | D   | L   | C     | r   | a min. | O-ring NBR 70 Sh A | ISO 6195/D | ISO 3320 | Reference        |
|-----|-----|-----|-------|-----|--------|--------------------|------------|----------|------------------|
| 300 | 316 | 9,5 | 302,5 | 1,5 | 5      | 304,17 x 5,34      |            |          | 17WE5303000-T46N |
| 310 | 326 | 9,5 | 312,5 | 1,5 | 5      | 315 x 5,34         |            |          | 17WE5303100-T46N |
| 320 | 336 | 9,5 | 322,5 | 1,5 | 5      | 329,57 x 5,34      | •          | •        | 17WE5303200-T46N |
| 340 | 356 | 9,5 | 342,5 | 1,5 | 5      | 340 x 5,34         |            |          | 17WE5303400-T46N |
| 350 | 366 | 9,5 | 352,5 | 1,5 | 5      | 354,97 x 5,34      |            |          | 17WE5303500-T46N |
| 360 | 376 | 9,5 | 362,5 | 1,5 | 5      | 366,34 x 5,34      | •          | •        | 17WE5303600-T46N |
| 370 | 386 | 9,5 | 372,5 | 1,5 | 5      | 380,37 x 5,34      |            |          | 17WE5303700-T46N |
| 400 | 424 | 14  | 402,5 | 1,5 | 8      | 405,26 x 7         |            |          | 17WE5404000-T46N |
| 420 | 444 | 14  | 422,5 | 1,5 | 8      | 430,66 x 7         |            |          | 17WE5404200-T46N |



**17WE5...-T46V**

## Example of item code

17 WE51 0 0500 - T46 V  
Sealtech code Profile serie Type (standard) Diameter d (mm x 10) Material ① Material ②



✕ Machining of housings: see pages 48-49

**More information**

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

Please contact us for applications approaching maximum values.

**17WE5...-T/M...V** Turcon® Excluder® 5 wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side holds back the residual oil film passing the rod seal.

This wiper is composed of a dynamic PTFE ring with a scraper lip respectively sealing lip positioned back-to-back.

Compared to Excluder® 2, Excluder® 5 wipers are more robust and used particularly for heavy-duty applications such as in construction machinery, presses, etc.

The standard PTFE material for this wiper is T46 which assures low friction and high speed performance and has also high compatibility with nearly all media due to his chemical resistance which exceeds that of all other thermoplastics and elastomers.

The elastomer O-ring on the static side works as an energising ring and pressurises the scraper lips against the sliding surface and thereby can also compensate deflections of the piston rod. If necessary, different O-ring materials can be chosen to suit the application.

The scraper is preferably used in conjunction with rod seals with a hydrodynamic **back-pumping** function.

**Operating conditions** ✕ see page 8

Temperature -20°C to 200°C  
Speed ≤ 15 m/s  
Fluids ✕ see pages 22-45

**Materials** ✕ see pages 54-59

Dynamic sealing element ① Turcon® T46  
Energising element ② FPM 75 Sh A: code V

**Assembly** ✕ see pages 54-59

O-ring and dynamic sealing element may easily be mounted into the grooved housing (above 30 mm)

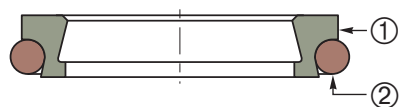
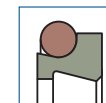
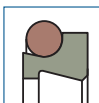
**Advantages**

High speed performance  
Low running friction  
No stick-slip and extended service life  
Can compensate rod deflections  
Very good scraping effect against impurities and also from the inside against the residual oil film  
Suitable for heavy duty applications  
High chemical compatibility with the right O-ring  
Large temperature range -45°C up to 180°C with the right O-ring and Turcon T46

| Serie | D (mm)         |                | L (mm) | D (mm)   | C (mm)  | a min. (mm) | O-ring C/S ② |
|-------|----------------|----------------|--------|----------|---------|-------------|--------------|
|       | Standard range | Extended range |        |          |         |             |              |
| WE50  | 19 → 39,9      | 19 → 100       | 4,2    | d + 7,6  | d + 1,5 | 3           | 2,62         |
| WE51  | 40 → 69,9      | 30 → 200       | 6,3    | d + 8,8  | d + 1,5 | 3           | 2,62         |
| WE52  | 70 → 139,9     | 70 → 360       | 8,1    | d + 12,2 | d + 2   | 4           | 3,53         |
| WE53  | 140 → 399,9    | 100 → 650      | 9,5    | d + 16   | d + 2,5 | 5           | 5,34         |
| WE54  | 400 → 649,9    | 200 → 650      | 14     | d + 24   | d + 2,5 | 8           | 7            |
| WE55  | 650 → 999,9    | 400 → 999,9    | 16     | d + 27,3 | d + 2,5 | 10          | 8,4          |
| WE55X | > 1000         |                | 16     | d + 27,3 | d + 2,5 | 10          | 8,4          |

| d   | D     | L   | C     | r   | a min. | O-ring FPM 75 Sh A | ISO 6195/D | ISO 3320 | Reference          |
|-----|-------|-----|-------|-----|--------|--------------------|------------|----------|--------------------|
| 20  | 27,6  | 4,2 | 21,5  | 0,8 | 3      | 21,89 x 2,62       |            |          | • 17WE5000200-T46V |
| 25  | 32,6  | 4,2 | 26,5  | 0,8 | 3      | 28,24 x 2,62       |            |          | • 17WE5000250-T46V |
| 28  | 35,6  | 4,2 | 29,5  | 0,8 | 3      | 29,82 x 2,62       |            |          | • 17WE5000280-T46V |
| 30  | 37,6  | 4,2 | 31,5  | 0,8 | 3      | 32,99 x 2,62       |            |          | 17WE5000300-T46V   |
| 32  | 39,6  | 4,2 | 33,5  | 0,8 | 3      | 34,59 x 2,62       |            |          | • 17WE5000320-T46V |
| 35  | 42,6  | 4,2 | 36,5  | 0,8 | 3      | 37,77 x 2,62       |            |          | 17WE5000350-T46V   |
| 36  | 43,6  | 4,2 | 37,5  | 0,8 | 3      | 37,77 x 2,62       |            |          | • 17WE5000360-T46V |
| 40  | 48,8  | 6,3 | 41,5  | 1   | 3      | 44,12 x 2,62       | •          | •        | 17WE5100400-M12V   |
| 40  | 48,8  | 6,3 | 41,5  | 1   | 3      | 44,12 x 2,62       | •          | •        | 17WE5100400-T46V   |
| 45  | 53,8  | 6,3 | 46,5  | 1   | 3      | 48,9 x 2,62        | •          | •        | 17WE5100450-T46V   |
| 50  | 58,8  | 6,3 | 51,5  | 1   | 3      | 53,64 x 2,62       | •          | •        | 17WE5100500-T46V   |
| 55  | 63,8  | 6,3 | 56,5  | 1   | 3      | 58,42 x 2,62       |            |          | 17WE5100550-T46V   |
| 56  | 64,8  | 6,3 | 57,5  | 1   | 3      | 59,99 x 2,62       | •          | •        | 17WE5100560-T46V   |
| 60  | 68,8  | 6,3 | 61,5  | 1   | 3      | 63,17 x 2,62       |            |          | 17WE5100600-T46V   |
| 63  | 71,8  | 6,3 | 64,5  | 1   | 3      | 66,34 x 2,62       | •          | •        | 17WE5100630-T46V   |
| 65  | 73,8  | 6,3 | 66,5  | 1   | 3      | 67,95 x 2,62       |            |          | 17WE5100650-T46V   |
| 70  | 82,2  | 8,1 | 72    | 1   | 4      | 75,79 x 3,53       | •          | •        | 17WE5200700-T46V   |
| 75  | 87,2  | 8,1 | 77    | 1   | 4      | 78,97 x 3,53       |            |          | 17WE5200750-T46V   |
| 80  | 92,2  | 8,1 | 82    | 1   | 4      | 85,32 x 3,53       | •          | •        | 17WE5200800-T46V   |
| 85  | 97,2  | 8,1 | 87    | 1   | 4      | 88,49 x 3,53       |            |          | 17WE5200850-T46V   |
| 90  | 102,2 | 8,1 | 92    | 1   | 4      | 94,84 x 3,53       | •          | •        | 17WE5200900-T46V   |
| 100 | 112,2 | 8,1 | 102   | 1   | 4      | 104,37 x 3,53      | •          | •        | 17WE5201000-T46V   |
| 105 | 117,2 | 8,1 | 107   | 1   | 4      | 110,72 x 3,53      |            |          | 17WE5201050-T46V   |
| 110 | 122,2 | 8,1 | 112   | 1   | 4      | 113,89 x 3,53      | •          | •        | 17WE5201100-M12V   |
| 110 | 122,2 | 8,1 | 112   | 1   | 4      | 113,89 x 3,53      | •          | •        | 17WE5201100-T46V   |
| 115 | 127,2 | 8,1 | 117   | 1   | 4      | 120,24 x 3,53      |            |          | 17WE5201150-T46V   |
| 120 | 132,2 | 8,1 | 122   | 1   | 4      | 123,42 x 3,53      |            |          | 17WE5201200-T46V   |
| 125 | 137,2 | 8,1 | 127   | 1   | 4      | 129,77 x 3,53      | •          | •        | 17WE5201250-T46V   |
| 130 | 142,2 | 8,1 | 132   | 1   | 4      | 136,12 x 3,53      |            |          | 17WE5201300-T46V   |
| 135 | 147,2 | 8,1 | 137   | 1   | 4      | 139,29 x 3,53      |            |          | 17WE5201350-T46V   |
| 140 | 156   | 9,5 | 142,5 | 1,5 | 5      | 145,42 x 5,33      | •          | •        | 17WE5301400-T46V   |
| 150 | 166   | 9,5 | 152,5 | 1,5 | 5      | 151,77 x 5,33      |            |          | 17WE5301500-T46V   |
| 160 | 176   | 9,5 | 162,5 | 1,5 | 5      | 164,47 x 5,33      | •          | •        | 17WE5301600-T46V   |
| 170 | 186   | 9,5 | 172,5 | 1,5 | 5      | 177,17 x 5,33      |            |          | 17WE5301700-T46V   |
| 180 | 196   | 9,5 | 182,5 | 1,5 | 5      | 183,52 x 5,33      | •          | •        | 17WE5301800-T46V   |
| 200 | 216   | 9,5 | 202,5 | 1,5 | 5      | 202,57 x 5,33      | •          | •        | 17WE5302000-T46V   |
| 220 | 236   | 9,5 | 222,5 | 1,5 | 5      | 221,62 x 5,33      | •          | •        | 17WE5302200-T46V   |
| 240 | 256   | 9,5 | 242,5 | 1,5 | 5      | 247,02 x 5,33      |            |          | 17WE5302400-T46V   |
| 250 | 266   | 9,5 | 252,5 | 1,5 | 5      | 253,37 x 5,33      | •          | •        | 17WE5302500-T46V   |
| 260 | 276   | 9,5 | 262,5 | 1,5 | 5      | 266,07 x 5,33      |            |          | 17WE5302600-T46V   |
| 280 | 296   | 9,5 | 282,5 | 1,5 | 5      | 278,77 x 5,34      | •          | •        | 17WE5302800-T46V   |
| 285 | 301   | 9,5 | 287,5 | 1,5 | 5      | 291,47 x 5,34      |            |          | 17WE5302850-T46V   |



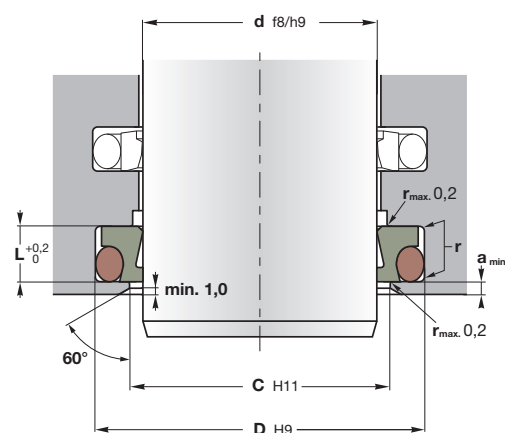


## 17WE5...-T46V

## Example of item code

17 WE51 0 0500 - T46 V

Sealtech code Profile serie Type (standard) Diameter d (mm x 10) Material ① Material ②



✕ Machining of housings: see pages 48-49

**17WE5...-T/M...V** Turcon® Excluder® 5 wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side holds back the residual oil film passing the rod seal.

This wiper is composed of a dynamic PTFE ring with a scraper lip respectively sealing lip positioned back-to-back.

Compared to Excluder® 2, Excluder® 5 wipers are more robust and used particularly for heavy-duty applications such as in construction machinery, presses, etc.

The standard PTFE material for this wiper is T46 which assures low friction and high speed performance and has also high compatibility with nearly all media due to his chemical resistance which exceeds that of all other thermoplastics and elastomers.

The elastomer O-ring on the static side works as an energising ring and pressurises the scraper lips against the sliding surface and thereby can also compensate deflections of the piston rod. If necessary, different O-ring materials can be chosen to suit the application.

The scraper is preferably used in conjunction with rod seals with a hydrodynamic **back-pumping function**.

## Operating conditions

✕ see page 8

Temperature -20°C to 200°C  
Speed ≤ 15 m/s  
Fluids ✕ see pages 22-45

## Materials

✕ see pages 54-59

Dynamic sealing element ① Turcon® T46  
Energising element ② FPM 75 Sh A: code V

## Assembly

✕ see pages 54-59

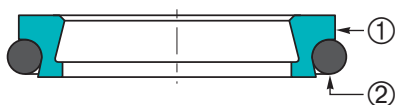
O-ring and dynamic sealing element may easily be mounted into the grooved housing (above 30 mm)

## Advantages

High speed performance  
Low running friction  
No stick-slip and extended service life  
Can compensate rod deflections  
Very good scraping effect against impurities and also from the inside against the residual oil film  
Suitable for heavy duty applications  
High chemical compatibility with the right O-ring  
Large temperature range -45°C up to 180°C with the right O-ring and Turcon T46

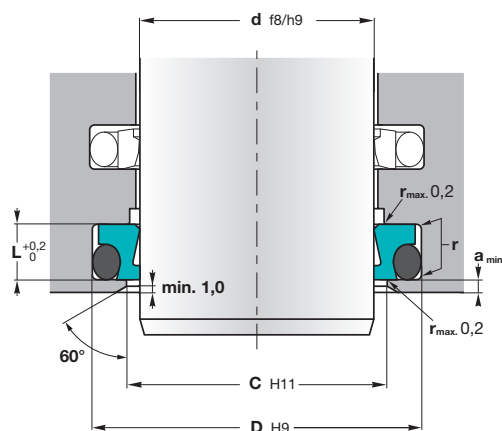
| Serie | D (mm)         |                | L (mm) | D (mm)   | C (mm)  | a min. (mm) | O-ring C/S ② |
|-------|----------------|----------------|--------|----------|---------|-------------|--------------|
|       | Standard range | Extended range |        |          |         |             |              |
| WE50  | 19 → 39,9      | 19 → 100       | 4,2    | d + 7,6  | d + 1,5 | 3           | 2,62         |
| WE51  | 40 → 69,9      | 30 → 200       | 6,3    | d + 8,8  | d + 1,5 | 3           | 2,62         |
| WE52  | 70 → 139,9     | 70 → 360       | 8,1    | d + 12,2 | d + 2   | 4           | 3,53         |
| WE53  | 140 → 399,9    | 100 → 650      | 9,5    | d + 16   | d + 2,5 | 5           | 5,34         |
| WE54  | 400 → 649,9    | 200 → 650      | 14     | d + 24   | d + 2,5 | 8           | 7            |
| WE55  | 650 → 999,9    | 400 → 999,9    | 16     | d + 27,3 | d + 2,5 | 10          | 8,4          |
| WE55X | > 1000         |                | 16     | d + 27,3 | d + 2,5 | 10          | 8,4          |

| d   | D   | L   | C     | r   | a min. | O-ring FPM 75 Sh A | ISO 6195/D | ISO 3320 | Reference        |
|-----|-----|-----|-------|-----|--------|--------------------|------------|----------|------------------|
| 300 | 316 | 9,5 | 302,5 | 1,5 | 5      | 304,17 x 5,34      |            |          | 17WE5303000-T46V |
| 310 | 326 | 9,5 | 312,5 | 1,5 | 5      | 315 x 5,34         |            |          | 17WE5303100-T46V |
| 320 | 336 | 9,5 | 322,5 | 1,5 | 5      | 329,57 x 5,34      | •          | •        | 17WE5303200-T46V |
| 340 | 356 | 9,5 | 342,5 | 1,5 | 5      | 340 x 5,34         |            |          | 17WE5303400-T46V |
| 350 | 366 | 9,5 | 352,5 | 1,5 | 5      | 354,97 x 5,34      |            |          | 17WE5303500-T46V |
| 360 | 376 | 9,5 | 362,5 | 1,5 | 5      | 366,34 x 5,34      | •          | •        | 17WE5303600-T46V |
| 370 | 386 | 9,5 | 372,5 | 1,5 | 5      | 380,37 x 5,34      |            |          | 17WE5303700-T46V |
| 400 | 424 | 14  | 402,5 | 1,5 | 8      | 405,26 x 7         |            |          | 17WE5404000-T46V |
| 420 | 444 | 14  | 422,5 | 1,5 | 8      | 430,66 x 7         |            |          | 17WE5404200-T46V |

**17WEP...-Z...N**

## Example of item code

17 WEP1 0 0500 - Z05 N  
Sealtech code Profile serie Type (standard) Diameter d (mm x 10) Material ① Material ②



✕ Machining of housings: see pages 48-49

**17WEP** Zurcon® Excluder® 500 wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side holds back the residual oil film passing the rod seal.

This wiper is composed of a dynamic PU ring with a scraper lip respectively sealing lip positioned back-to-back.

In contrast to Turcon® Excluder®, Excluder® 500 wipers in Z05 (same grooves as for Excluder® 5) are much more flexible and easier to install, but cannot withstand high speeds or high temperatures and have also limited chemical resistance

The elastomer O-ring on the static side works as an energising ring and pressurises the scraper lips against the sliding surface and thereby can also compensate deflections of the piston rod. If necessary, different O-ring materials can be chosen to suit the application.

The scraper is preferably used in conjunction with rod seals with a hydrodynamic **back-pumping function** or a drainage channel must be opened in this area.

**Operating conditions**

✕ see page 8

Temperature -30°C to 80°C  
Speed ≤ 1 m/s  
Fluids ✕ see pages 22-45

**Materials**

✕ see pages 10-19

Dynamic sealing element ① Zurcon® Z05  
Energising element ② N = NBR 70 Sh A

**Assembly**

✕ see pages 54-59

O-ring and dynamic sealing element may easily be mounted into the grooved housing (above 30 mm)

**Advantages**

Good scraping effect against impurities and also from the inside against the residual oil film  
High flexibility  
Easy installation  
Can compensate rod deflections  
Good price-performance ratio, economical solution  
Extended service life  
Excellent abrasion resistance

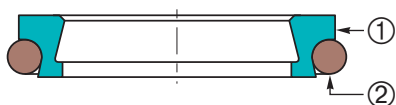
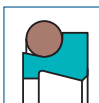
| d   | D     | L   | C    | r   | a <sub>min.</sub> | O-ring<br>NBR 70 Sh A | ISO<br>6195/D | Reference        |
|-----|-------|-----|------|-----|-------------------|-----------------------|---------------|------------------|
| 12  | 19,6  | 4,2 | 13,5 | 0,8 | 3                 | 15 x 2,62             |               | 17WEP000120-Z05N |
| 14  | 21,6  | 4,2 | 15,5 | 0,8 | 3                 | 17,12 x 2,62          |               | 17WEP000140-Z05N |
| 18  | 25,6  | 4,2 | 19,5 | 0,8 | 3                 | 20,29 x 2,62          |               | 17WEP000180-Z05N |
| 20  | 27,6  | 4,2 | 21,5 | 0,8 | 3                 | 21,89 x 2,62          |               | 17WEP000200-Z05N |
| 22  | 29,6  | 4,2 | 23,5 | 0,8 | 3                 | 25,07 x 2,62          |               | 17WEP000220-Z05N |
| 32  | 39,6  | 4,2 | 33,5 | 0,8 | 3                 | 34,59 x 2,62          |               | 17WEP000320-Z05N |
| 35  | 42,6  | 4,2 | 36,5 | 0,8 | 3                 | 37,77 x 2,62          |               | 17WEP000350-Z05N |
| 40  | 48,8  | 6,3 | 41,5 | 0,8 | 3                 | 44,12 x 2,62          | •             | 17WEP100400-Z05N |
| 45  | 53,8  | 6,3 | 46,5 | 0,8 | 3                 | 48,90 x 2,62          | •             | 17WEP100450-Z05N |
| 50  | 58,8  | 6,3 | 51,5 | 0,8 | 3                 | 53,64 x 2,62          | •             | 17WEP100500-Z05N |
| 55  | 63,8  | 6,3 | 56,5 | 0,8 | 3                 | 58,42 x 2,62          |               | 17WEP100550-Z05N |
| 60  | 68,8  | 6,3 | 61,5 | 0,8 | 3                 | 63,17 x 2,62          |               | 17WEP100600-Z05N |
| 65  | 73,8  | 6,3 | 66,5 | 0,8 | 3                 | 67,95 x 2,62          |               | 17WEP100650-Z05N |
| 70  | 82,2  | 8,1 | 72   | 1   | 4                 | 75,79 x 3,53          | •             | 17WEP200700-Z05N |
| 75  | 87,2  | 8,1 | 77   | 1   | 4                 | 78,97 x 3,53          |               | 17WEP200750-Z05N |
| 80  | 92,2  | 8,1 | 82   | 1   | 4                 | 85,32 x 3,53          | •             | 17WEP200800-Z05N |
| 85  | 97,2  | 8,1 | 87   | 1   | 4                 | 88,49 x 3,53          |               | 17WEP200850-Z05N |
| 90  | 102,2 | 8,1 | 92   | 1   | 4                 | 94,84 x 3,53          | •             | 17WEP200900-Z05N |
| 95  | 107,2 | 8,1 | 97   | 1   | 4                 | 101,19 x 3,53         |               | 17WEP200950-Z05N |
| 100 | 112,2 | 8,1 | 102  | 1   | 4                 | 104,37 x 3,53         | •             | 17WEP201000-Z05N |
| 105 | 117,2 | 8,1 | 107  | 1   | 4                 | 110,72 x 3,53         |               | 17WEP201050-Z05N |
| 110 | 122,2 | 8,1 | 112  | 1   | 4                 | 113,89 x 3,53         | •             | 17WEP201100-Z05N |
| 125 | 137,2 | 8,1 | 127  | 1   | 4                 | 129,77 x 3,53         | •             | 17WEP201250-Z05N |
| 130 | 142,2 | 8,1 | 132  | 1   | 4                 | 132,94 x 3,53         |               | 17WEP201300-Z05N |

**More information**

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

Please contact us for applications approaching maximum values.

| Serie | D<br>(mm) | L<br>(mm) | D<br>(mm) | C<br>(mm) | a <sub>min.</sub><br>(mm) | O-ring C/S<br>② |
|-------|-----------|-----------|-----------|-----------|---------------------------|-----------------|
| WEP0  | 12 → 36   | 4,2       | d + 7,6   | d + 1,5   | 3                         | 2,62            |
| WEP1  | 36 → 65   | 6,3       | d + 8,8   | d + 1,5   | 3                         | 2,62            |
| WEP2  | 70 → 130  | 8,1       | d + 12,2  | d + 2     | 4                         | 3,53            |

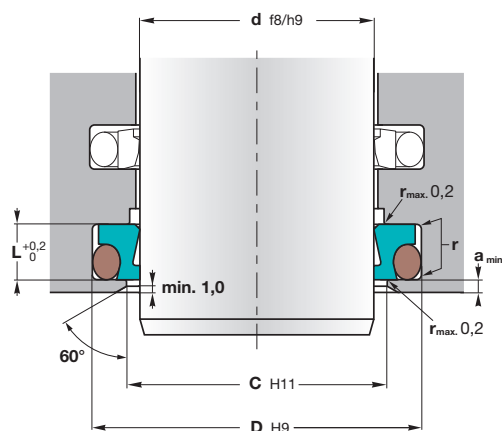


## 17WEP...-Z...V

## Example of item code

17 WEP1 0 0500 - Z05 V

Sealtech code Profile serie Type (standard) Diameter d (mm x 10) Material ① Material ②



✕ Machining of housings: see pages 48-49

17WEP Zurcon® Excluder® 500 wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side holds back the residual oil film passing the rod seal.

This wiper is composed of a dynamic PU ring with a scraper lip respectively sealing lip positioned back-to-back.

In contrast to Turcon® Excluder®, Excluder® 500 wipers in Z05 (same grooves as for Excluder® 5) are much more flexible and easier to install, but cannot withstand high speeds or high temperatures and have also limited chemical resistance

The elastomer O-ring on the static side works as an energising ring and pressurises the scraper lips against the sliding surface and thereby can also compensate deflections of the piston rod. If necessary, different O-ring materials can be chosen to suit the application.

The scraper is preferably used in conjunction with rod seals with a hydrodynamic **back-pumping function** or a drainage channel must be opened in this area.

## Operating conditions

✕ see page 8

Temperature -20°C to 80°C  
Speed ≤ 1 m/s  
Fluids ✕ see pages 22-45

## Materials

✕ see pages 10-19

Dynamic sealing element ① Zurcon® Z05  
Energising element ② V = FPM 75 Sh A

## Assembly

✕ see pages 54-59

O-ring and dynamic sealing element may easily be mounted into the grooved housing (above 30 mm)

## Advantages

Good scraping effect against impurities and also from the inside against the residual oil film  
High flexibility  
Easy installation  
Can compensate rod deflections  
Good price-performance ratio, economical solution  
Extended service life  
Excellent abrasion resistance

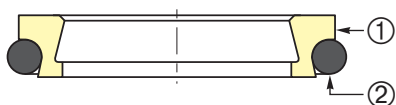
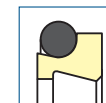
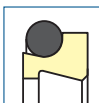
| d   | D     | L   | C    | r   | a <sub>min.</sub> | O-ring<br>FPM 75 Sh A | ISO<br>6195/D | Reference        |
|-----|-------|-----|------|-----|-------------------|-----------------------|---------------|------------------|
| 12  | 19,6  | 4,2 | 13,5 | 0,8 | 3                 | 15 x 2,62             |               | 17WEP000120-Z05V |
| 14  | 21,6  | 4,2 | 15,5 | 0,8 | 3                 | 17,12 x 2,62          |               | 17WEP000140-Z05V |
| 18  | 25,6  | 4,2 | 19,5 | 0,8 | 3                 | 20,29 x 2,62          |               | 17WEP000180-Z05V |
| 20  | 27,6  | 4,2 | 21,5 | 0,8 | 3                 | 21,89 x 2,62          |               | 17WEP000200-Z05V |
| 22  | 29,6  | 4,2 | 23,5 | 0,8 | 3                 | 25,07 x 2,62          |               | 17WEP000220-Z05V |
| 32  | 39,6  | 4,2 | 33,5 | 0,8 | 3                 | 34,59 x 2,62          |               | 17WEP000320-Z05V |
| 35  | 42,6  | 4,2 | 36,5 | 0,8 | 3                 | 37,77 x 2,62          |               | 17WEP000350-Z05V |
| 40  | 48,8  | 6,3 | 41,5 | 0,8 | 3                 | 44,12 x 2,62          | •             | 17WEP100400-Z05V |
| 45  | 53,8  | 6,3 | 46,5 | 0,8 | 3                 | 48,90 x 2,62          | •             | 17WEP100450-Z05V |
| 50  | 58,8  | 6,3 | 51,5 | 0,8 | 3                 | 53,64 x 2,62          | •             | 17WEP100500-Z05V |
| 55  | 63,8  | 6,3 | 56,5 | 0,8 | 3                 | 58,42 x 2,62          |               | 17WEP100550-Z05V |
| 60  | 68,8  | 6,3 | 61,5 | 0,8 | 3                 | 63,17 x 2,62          |               | 17WEP100600-Z05V |
| 65  | 73,8  | 6,3 | 66,5 | 0,8 | 3                 | 67,95 x 2,62          |               | 17WEP100650-Z05V |
| 70  | 82,2  | 8,1 | 72   | 1   | 4                 | 75,79 x 3,53          | •             | 17WEP200700-Z05V |
| 75  | 87,2  | 8,1 | 77   | 1   | 4                 | 78,97 x 3,53          |               | 17WEP200750-Z05V |
| 80  | 92,2  | 8,1 | 82   | 1   | 4                 | 85,32 x 3,53          | •             | 17WEP200800-Z05V |
| 85  | 97,2  | 8,1 | 87   | 1   | 4                 | 88,49 x 3,53          |               | 17WEP200850-Z05V |
| 90  | 102,2 | 8,1 | 92   | 1   | 4                 | 94,84 x 3,53          | •             | 17WEP200900-Z05V |
| 95  | 107,2 | 8,1 | 97   | 1   | 4                 | 101,19 x 3,53         |               | 17WEP200950-Z05V |
| 100 | 112,2 | 8,1 | 102  | 1   | 4                 | 104,37 x 3,53         | •             | 17WEP201000-Z05V |
| 105 | 117,2 | 8,1 | 107  | 1   | 4                 | 110,72 x 3,53         |               | 17WEP201050-Z05V |
| 110 | 122,2 | 8,1 | 112  | 1   | 4                 | 113,89 x 3,53         | •             | 17WEP201100-Z05V |
| 125 | 137,2 | 8,1 | 127  | 1   | 4                 | 129,77 x 3,53         | •             | 17WEP201250-Z05V |
| 130 | 142,2 | 8,1 | 132  | 1   | 4                 | 132,94 x 3,53         |               | 17WEP201300-Z05V |

## More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

Please contact us for applications approaching maximum values.

| Serie | D<br>(mm) | L<br>(mm) | D<br>(mm) | C<br>(mm) | a <sub>min.</sub><br>(mm) | O-ring C/S<br>② |
|-------|-----------|-----------|-----------|-----------|---------------------------|-----------------|
| WEP0  | 12 → 36   | 4,2       | d + 7,6   | d + 1,5   | 3                         | 2,62            |
| WEP1  | 36 → 65   | 6,3       | d + 8,8   | d + 1,5   | 3                         | 2,62            |
| WEP2  | 70 → 130  | 8,1       | d + 12,2  | d + 2     | 4                         | 3,53            |

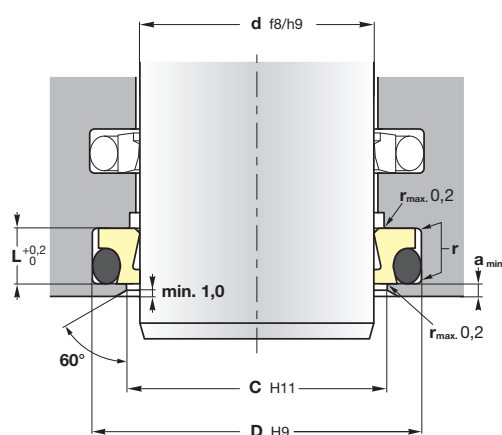


## 17WE5...-Z...N

## Example of item code

17 WE51 0 0550 - Z53 N

Sealtech code Profile serie Type (standard) Diameter d (mm x 10) Material ① Material ②



✕ Machining of housings: see pages 48-49

## More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

Please contact us for applications approaching maximum values.

**17WE5...-Z...N** Zurcon® Excluder® 5 wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side holds back the residual oil film passing the rod seal.

This wiper is composed of a dynamic PU ring with a scraper lip respectively sealing lip positioned back-to-back.

The material used for this wiper is Z53, a hard casted polyurethane which has a very high abrasion and extrusion resistance and can also be used on counter surfaces with rougher surface finish

Compared to Turcon materials, it cannot withstand such high speeds or high temperatures and has also limited chemical resistance.

The elastomer O-ring on the static side works as an energising ring and pressurises the scraper lips against the sliding surface and thereby can also compensate deflections of the piston rod. If necessary, different O-ring materials can be chosen to suit the application.

The scraper is preferably used in conjunction with rod seals with a hydrodynamic **back-pumping function** or a drainage channel must be opened in this area.

## Operating conditions

✕ see page 8

Temperature -30°C to 100°C  
Speed ≤ 2 m/s  
Fluids ✕ see pages 22-45

## Materials

✕ see pages 54-59

Dynamic sealing element ① Zurcon® Z53  
Energising element ② NBR 70 Sh A: code N

## Assembly

✕ see pages 54-59

O-ring and dynamic sealing element may easily be mounted into the grooved housing (above 30 mm)

## Advantages

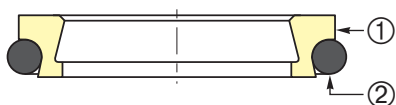
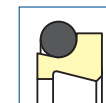
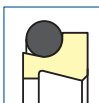
Low running friction  
Can compensate rod deflections  
Very good scraping effect against impurities and also from the inside against the residual oil film  
Suitable for heavy duty applications  
Extended service life  
Simple groove construction

| Serie | D (mm)         |                | L (mm) | D (mm)   | C (mm)  | a min. (mm) | O-ring C/S ② |
|-------|----------------|----------------|--------|----------|---------|-------------|--------------|
|       | Standard range | Extended range |        |          |         |             |              |
| WE50  | 19 → 39,9      | 19 → 100       | 4,2    | d + 7,6  | d + 1,5 | 3           | 2,62         |
| WE51  | 40 → 69,9      | 30 → 200       | 6,3    | d + 8,8  | d + 1,5 | 3           | 2,62         |
| WE52  | 70 → 139,9     | 70 → 360       | 8,1    | d + 12,2 | d + 2   | 4           | 3,53         |
| WE53  | 140 → 399,9    | 100 → 650      | 9,5    | d + 16   | d + 2,5 | 5           | 5,34         |
| WE54  | 400 → 649,9    | 200 → 650      | 14     | d + 24   | d + 2,5 | 8           | 7            |
| WE55  | 650 → 999,9    | 400 → 999,9    | 16     | d + 27,3 | d + 2,5 | 10          | 8,4          |
| WE55X | > 1000         |                | 16     | d + 27,3 | d + 2,5 | 10          | 8,4          |

| d   | D     | L   | C     | r   | a min. | O-ring NBR 70 Sh A | ISO 6195/D | ISO 3320 | Reference        |
|-----|-------|-----|-------|-----|--------|--------------------|------------|----------|------------------|
| 20  | 27,6  | 4,2 | 21,5  | 0,8 | 3      | 21,89 x 2,62       |            |          | 17WE5000200-Z53N |
| 25  | 32,6  | 4,2 | 26,5  | 0,8 | 3      | 28,24 x 2,62       |            |          | 17WE5000250-Z53N |
| 28  | 35,6  | 4,2 | 29,5  | 0,8 | 3      | 29,82 x 2,62       |            |          | 17WE5000280-Z53N |
| 28  | 35,6  | 4,2 | 29,5  | 0,8 | 3      | 29,82 x 2,62       |            |          | 17WE5000280-Z80N |
| 30  | 37,6  | 4,2 | 31,5  | 0,8 | 3      | 32,99 x 2,62       |            |          | 17WE5000300-Z53N |
| 32  | 39,6  | 4,2 | 33,5  | 0,8 | 3      | 34,59 x 2,62       |            |          | 17WE5000320-Z53N |
| 35  | 42,6  | 4,2 | 36,5  | 0,8 | 3      | 37,77 x 2,62       |            |          | 17WE5000350-Z54N |
| 36  | 43,6  | 4,2 | 37,5  | 0,8 | 3      | 37,77 x 2,62       |            |          | 17WE5000360-Z53N |
| 40  | 48,8  | 6,3 | 41,5  | 1   | 3      | 44,12 x 2,62       |            |          | 17WE5100400-Z53N |
| 45  | 53,8  | 6,3 | 46,5  | 1   | 3      | 48,9 x 2,62        |            |          | 17WE5100450-Z53N |
| 45  | 53,8  | 6,3 | 46,5  | 1   | 3      | 48,9 x 2,62        |            |          | 17WE5100450-Z80N |
| 50  | 58,8  | 6,3 | 51,5  | 1   | 3      | 53,64 x 2,62       |            |          | 17WE5100500-Z53N |
| 55  | 63,8  | 6,3 | 56,5  | 1   | 3      | 58,42 x 2,62       |            |          | 17WE5100550-Z53N |
| 56  | 64,8  | 6,3 | 57,5  | 1   | 3      | 59,99 x 2,62       |            |          | 17WE5100560-Z53N |
| 56  | 64,8  | 6,3 | 57,5  | 1   | 3      | 59,99 x 2,62       |            |          | 17WE5100560-Z54N |
| 60  | 68,8  | 6,3 | 61,5  | 1   | 3      | 63,17 x 2,62       |            |          | 17WE5100600-Z53N |
| 63  | 71,8  | 6,3 | 64,5  | 1   | 3      | 66,34 x 2,62       |            |          | 17WE5100630-Z53N |
| 65  | 73,8  | 6,3 | 66,5  | 1   | 3      | 67,95 x 2,62       |            |          | 17WE5100650-Z53N |
| 70  | 82,2  | 8,1 | 72    | 1   | 4      | 75,79 x 3,53       |            |          | 17WE5200700-Z53N |
| 70  | 82,2  | 8,1 | 72    | 1   | 4      | 75,79 x 3,53       |            |          | 17WE5200700-Z54N |
| 70  | 82,2  | 8,1 | 72    | 1   | 4      | 75,79 x 3,53       |            |          | 17WE5200700-Z80N |
| 75  | 87,2  | 8,1 | 77    | 1   | 4      | 78,97 x 3,53       |            |          | 17WE5200750-Z53N |
| 80  | 92,2  | 8,1 | 82    | 1   | 4      | 85,32 x 3,53       |            |          | 17WE5200800-Z54N |
| 80  | 92,2  | 8,1 | 82    | 1   | 4      | 85,32 x 3,53       |            |          | 17WE5200800-Z53N |
| 85  | 97,2  | 8,1 | 87    | 1   | 4      | 88,49 x 3,53       |            |          | 17WE5200850-Z53N |
| 90  | 102,2 | 8,1 | 92    | 1   | 4      | 94,84 x 3,53       |            |          | 17WE5200900-Z53N |
| 90  | 102,2 | 8,1 | 92    | 1   | 4      | 94,84 x 3,53       |            |          | 17WE5200900-Z54N |
| 100 | 112,2 | 8,1 | 102   | 1   | 4      | 104,37 x 3,53      |            |          | 17WE5201000-Z53N |
| 100 | 112,2 | 8,1 | 102   | 1   | 4      | 104,37 x 3,53      |            |          | 17WE5201000-Z54N |
| 110 | 122,2 | 8,1 | 112   | 1   | 4      | 113,89 x 3,53      |            |          | 17WE5201100-Z53N |
| 110 | 122,2 | 8,1 | 112   | 1   | 4      | 113,89 x 3,53      |            |          | 17WE5201100-Z54N |
| 115 | 127,2 | 8,1 | 117   | 1   | 4      | 120,24 x 3,53      |            |          | 17WE5201150-Z53N |
| 120 | 132,2 | 8,1 | 122   | 1   | 4      | 123,42 x 3,53      |            |          | 17WE5201200-Z80N |
| 125 | 137,2 | 8,1 | 127   | 1   | 4      | 129,77 x 3,53      |            |          | 17WE5201250-Z53N |
| 125 | 137,2 | 8,1 | 127   | 1   | 4      | 129,77 x 3,53      |            |          | 17WE5201250-Z54N |
| 130 | 142,2 | 8,1 | 132   | 1   | 4      | 136,12 x 3,53      |            |          | 17WE5201300-Z53N |
| 135 | 147,2 | 8,1 | 137   | 1   | 4      | 139,29 x 3,53      |            |          | 17WE5201350-Z53N |
| 140 | 156   | 9,5 | 142,5 | 1,5 | 5      | 145,42 x 5,33      |            |          | 17WE5301400-Z54N |
| 140 | 156   | 9,5 | 142,5 | 1,5 | 5      | 145,42 x 5,33      |            |          | 17WE5301400-Z53N |

The material Zurcon® Z51 has been changed in Zurcon® Z53  
The material Zurcon® Z52 has been changed in Zurcon® Z54

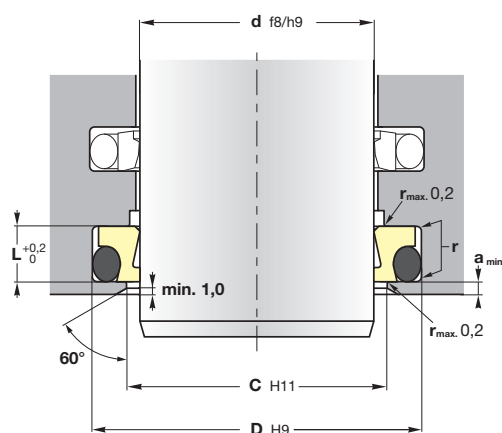




## 17WE5...-Z...N

## Example of item code

|               |               |                 |                      |   |            |            |
|---------------|---------------|-----------------|----------------------|---|------------|------------|
| 17            | WE51          | 0               | 0550                 | - | Z53        | N          |
| Sealtech code | Profile serie | Type (standard) | Diameter d (mm x 10) |   | Material ① | Material ② |



✕ Machining of housings: see pages 48-49

## More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

Please contact us for applications approaching maximum values.

**17WE5...-Z...N** Zurcon® Excluder® 5 wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side holds back the residual oil film passing the rod seal.

This wiper is composed of a dynamic PU ring with a scraper lip respectively sealing lip positioned back-to-back.

The material used for this wiper is Z53, a hard casted polyurethane which has a very high abrasion and extrusion resistance and can also be used on counter surfaces with rougher surface finish

Compared to Turcon materials, it cannot withstand such high speeds or high temperatures and has also limited chemical resistance.

The elastomer O-ring on the static side works as an energising ring and pressurises the scraper lips against the sliding surface and thereby can also compensate deflections of the piston rod. If necessary, different O-ring materials can be chosen to suit the application.

The scraper is preferably used in conjunction with rod seals with a hydrodynamic **back-pumping function** or a drainage channel must be opened in this area.

## ✕ Operating conditions ✕ see page 8

|             |                   |
|-------------|-------------------|
| Temperature | -30°C to 100°C    |
| Speed       | ≤ 2 m/s           |
| Fluids      | ✕ see pages 22-45 |

## ✕ Materials ✕ see pages 54-59

|                           |                     |
|---------------------------|---------------------|
| Dynamic sealing element ① | Zurcon® Z53         |
| Energising element ②      | NBR 70 Sh A: code N |

## ✕ Assembly ✕ see pages 54-59

O-ring and dynamic sealing element may easily be mounted into the grooved housing (above 30 mm)

## Advantages

- Low running friction
- Can compensate rod deflections
- Very good scraping effect against impurities and also from the inside against the residual oil film
- Suitable for heavy duty applications
- Extended service life
- Simple groove construction

| Serie | D (mm)         |                | L (mm) | D (mm)   | C (mm)  | a min. (mm) | O-ring C/S ② |
|-------|----------------|----------------|--------|----------|---------|-------------|--------------|
|       | Standard range | Extended range |        |          |         |             |              |
| WE50  | 19 → 39,9      | 19 → 100       | 4,2    | d + 7,6  | d + 1,5 | 3           | 2,62         |
| WE51  | 40 → 69,9      | 30 → 200       | 6,3    | d + 8,8  | d + 1,5 | 3           | 2,62         |
| WE52  | 70 → 139,9     | 70 → 360       | 8,1    | d + 12,2 | d + 2   | 4           | 3,53         |
| WE53  | 140 → 399,9    | 100 → 650      | 9,5    | d + 16   | d + 2,5 | 5           | 5,34         |
| WE54  | 400 → 649,9    | 200 → 650      | 14     | d + 24   | d + 2,5 | 8           | 7            |
| WE55  | 650 → 999,9    | 400 → 999,9    | 16     | d + 27,3 | d + 2,5 | 10          | 8,4          |
| WE55X | > 1000         |                | 16     | d + 27,3 | d + 2,5 | 10          | 8,4          |

| d   | D   | L   | C     | r   | a min. | O-ring<br>NBR 70 Sh A | ISO<br>6195/D | ISO<br>3320 | Reference        |
|-----|-----|-----|-------|-----|--------|-----------------------|---------------|-------------|------------------|
| 150 | 166 | 9,5 | 152,5 | 1,5 | 5      | 151,77 x 5,33         |               |             | 17WE5301500-Z53N |
| 150 | 166 | 9,5 | 152,5 | 1,5 | 5      | 151,77 x 5,33         |               |             | 17WE5301500-Z54N |
| 160 | 176 | 9,5 | 162,5 | 1,5 | 5      | 164,47 x 5,33         | •             | •           | 17WE5301600-Z53N |
| 160 | 176 | 9,5 | 162,5 | 1,5 | 5      | 164,47 x 5,33         | •             | •           | 17WE5301600-Z54N |
| 160 | 176 | 9,5 | 162,5 | 1,5 | 5      | 164,47 x 5,33         | •             | •           | 17WE5301600-Z80N |
| 170 | 186 | 9,5 | 172,5 | 1,5 | 5      | 177,17 x 5,33         |               |             | 17WE5301700-Z53N |
| 180 | 196 | 9,5 | 182,5 | 1,5 | 5      | 183,52 x 5,33         | •             | •           | 17WE5301800-Z53N |
| 180 | 196 | 9,5 | 182,5 | 1,5 | 5      | 183,52 x 5,33         | •             | •           | 17WE5301800-Z54N |
| 200 | 216 | 9,5 | 202,5 | 1,5 | 5      | 202,57 x 5,33         | •             | •           | 17WE5302000-Z53N |
| 200 | 216 | 9,5 | 202,5 | 1,5 | 5      | 202,57 x 5,33         | •             | •           | 17WE5302000-Z54N |
| 200 | 216 | 9,5 | 202,5 | 1,5 | 5      | 202,57 x 5,33         | •             | •           | 17WE5302000-Z80N |
| 220 | 236 | 9,5 | 222,5 | 1,5 | 5      | 221,62 x 5,33         | •             | •           | 17WE5302200-Z53N |
| 220 | 236 | 9,5 | 222,5 | 1,5 | 5      | 221,62 x 5,33         | •             | •           | 17WE5302200-Z54N |
| 240 | 256 | 9,5 | 242,5 | 1,5 | 5      | 247,02 x 5,33         |               |             | 17WE5302400-Z53N |
| 240 | 256 | 9,5 | 242,5 | 1,5 | 5      | 247,02 x 5,33         |               |             | 17WE5302400-Z54N |
| 250 | 266 | 9,5 | 252,5 | 1,5 | 5      | 253,37 x 5,33         | •             | •           | 17WE5302500-Z53N |
| 280 | 296 | 9,5 | 282,5 | 1,5 | 5      | 278,77 x 5,33         | •             | •           | 17WE5302800-Z54N |
| 400 | 424 | 14  | 402,5 | 1,5 | 8      | 405,26 x 7            |               |             | 17WE5404000-Z54N |

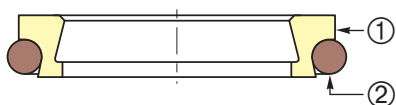
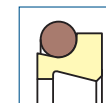
The material Zurcon® Z51 has been changed in Zurcon® Z53  
The material Zurcon® Z52 has been changed in Zurcon® Z54





17WE5...-Z...V

Zurcon® Excluder® 5

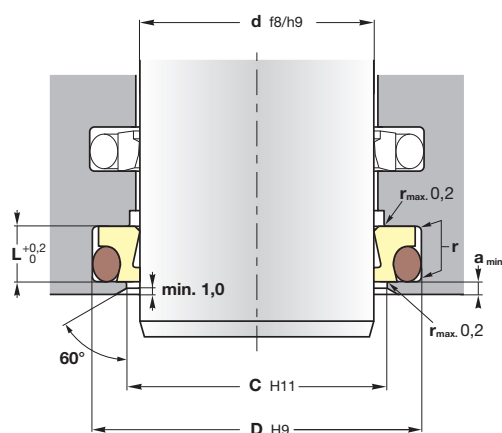
SEALTECH  
Hydraulic Seals Technology

## 17WE5...-Z...V

## Example of item code

17 WE51 0 0550 - Z53 V

Sealtech code Profile serie Type (standard) Diameter d (mm x 10) Material ① Material ②



✕ Machining of housings: see pages 48-49

## More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

Please contact us for applications approaching maximum values.

**17WE5...-Z...V** Zurcon® Excluder® 5 wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side holds back the residual oil film passing the rod seal.

This wiper is composed of a dynamic PU ring with a scraper lip respectively sealing lip positioned back-to-back.

The material used for this wiper is Z53, a hard casted polyurethane which has a very high abrasion and extrusion resistance and can also be used on counter surfaces with rougher surface finish

Compared to Turcon materials, it cannot withstand such high speeds or high temperatures and has also limited chemical resistance.

The elastomer O-ring on the static side works as an energising ring and pressurises the scraper lips against the sliding surface and thereby can also compensate deflections of the piston rod. If necessary, different O-ring materials can be chosen to suit the application.

The scraper is preferably used in conjunction with rod seals with a hydrodynamic **back-pumping function** or a drainage channel must be opened in this area.

## Operating conditions

✕ see page 8

Temperature -20°C to 200°C  
Speed ≤ 2 m/s  
Fluids ✕ see pages 22-45

## Materials

✕ see pages 54-59

Dynamic sealing element ① Zurcon® Z53  
Energising element ② FPM 75 Sh A: code V

## Assembly

✕ see pages 54-59

O-ring and dynamic sealing element may easily be mounted into the grooved housing (above 30 mm)

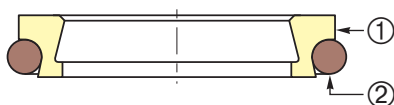
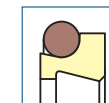
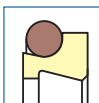
## Advantages

Low running friction  
Can compensate rod deflections  
Very good scraping effect against impurities and also from the inside against the residual oil film  
Suitable for heavy duty applications  
Extended service life  
Simple groove construction

| Serie | D (mm)         |                | L (mm) | D (mm)   | C (mm)  | a min. (mm) | O-ring C/S ② |
|-------|----------------|----------------|--------|----------|---------|-------------|--------------|
|       | Standard range | Extended range |        |          |         |             |              |
| WE50  | 19 → 39,9      | 19 → 100       | 4,2    | d + 7,6  | d + 1,5 | 3           | 2,62         |
| WE51  | 40 → 69,9      | 30 → 200       | 6,3    | d + 8,8  | d + 1,5 | 3           | 2,62         |
| WE52  | 70 → 139,9     | 70 → 360       | 8,1    | d + 12,2 | d + 2   | 4           | 3,53         |
| WE53  | 140 → 399,9    | 100 → 650      | 9,5    | d + 16   | d + 2,5 | 5           | 5,34         |
| WE54  | 400 → 649,9    | 200 → 650      | 14     | d + 24   | d + 2,5 | 8           | 7            |
| WE55  | 650 → 999,9    | 400 → 999,9    | 16     | d + 27,3 | d + 2,5 | 10          | 8,4          |
| WE55X | > 1000         |                | 16     | d + 27,3 | d + 2,5 | 10          | 8,4          |

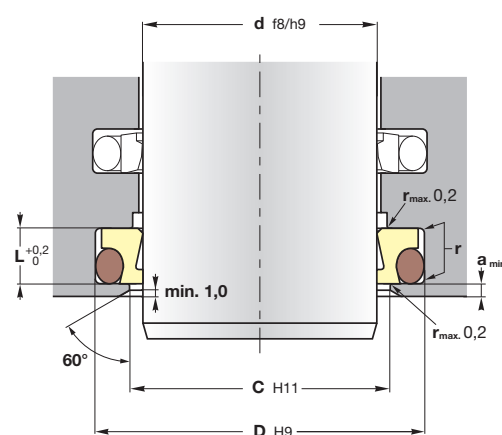
| d   | D     | L   | C     | r   | a min. | O-ring FPM 75 Sh A | ISO 6195/D | ISO 3320 | Reference        |
|-----|-------|-----|-------|-----|--------|--------------------|------------|----------|------------------|
| 20  | 27,6  | 4,2 | 21,5  | 0,8 | 3      | 21,89 x 2,62       |            |          | 17WE5000200-Z53V |
| 25  | 32,6  | 4,2 | 26,5  | 0,8 | 3      | 28,24 x 2,62       |            |          | 17WE5000250-Z53V |
| 28  | 35,6  | 4,2 | 29,5  | 0,8 | 3      | 29,82 x 2,62       |            |          | 17WE5000280-Z53V |
| 28  | 35,6  | 4,2 | 29,5  | 0,8 | 3      | 29,82 x 2,62       |            |          | 17WE5000280-Z80V |
| 30  | 37,6  | 4,2 | 31,5  | 0,8 | 3      | 32,99 x 2,62       |            |          | 17WE5000300-Z53V |
| 32  | 39,6  | 4,2 | 33,5  | 0,8 | 3      | 34,59 x 2,62       |            |          | 17WE5000320-Z53V |
| 35  | 42,6  | 4,2 | 36,5  | 0,8 | 3      | 37,77 x 2,62       |            |          | 17WE5000350-Z54V |
| 36  | 43,6  | 4,2 | 37,5  | 0,8 | 3      | 37,77 x 2,62       |            |          | 17WE5000360-Z53V |
| 40  | 48,8  | 6,3 | 41,5  | 1   | 3      | 44,12 x 2,62       |            |          | 17WE5100400-Z53V |
| 45  | 53,8  | 6,3 | 46,5  | 1   | 3      | 48,9 x 2,62        |            |          | 17WE5100450-Z53V |
| 45  | 53,8  | 6,3 | 46,5  | 1   | 3      | 48,9 x 2,62        |            |          | 17WE5100450-Z80V |
| 50  | 58,8  | 6,3 | 51,5  | 1   | 3      | 53,64 x 2,62       |            |          | 17WE5100500-Z53V |
| 55  | 63,8  | 6,3 | 56,5  | 1   | 3      | 58,42 x 2,62       |            |          | 17WE5100550-Z53V |
| 56  | 64,8  | 6,3 | 57,5  | 1   | 3      | 59,99 x 2,62       |            |          | 17WE5100560-Z53V |
| 56  | 64,8  | 6,3 | 57,5  | 1   | 3      | 59,99 x 2,62       |            |          | 17WE5100560-Z54V |
| 60  | 68,8  | 6,3 | 61,5  | 1   | 3      | 63,17 x 2,62       |            |          | 17WE5100600-Z53V |
| 63  | 71,8  | 6,3 | 64,5  | 1   | 3      | 66,34 x 2,62       |            |          | 17WE5100630-Z53V |
| 65  | 73,8  | 6,3 | 66,5  | 1   | 3      | 67,95 x 2,62       |            |          | 17WE5100650-Z53V |
| 70  | 82,2  | 8,1 | 72    | 1   | 4      | 75,79 x 3,53       |            |          | 17WE5200700-Z53V |
| 70  | 82,2  | 8,1 | 72    | 1   | 4      | 75,79 x 3,53       |            |          | 17WE5200700-Z54V |
| 70  | 82,2  | 8,1 | 72    | 1   | 4      | 75,79 x 3,53       |            |          | 17WE5200700-Z80V |
| 75  | 87,2  | 8,1 | 77    | 1   | 4      | 78,97 x 3,53       |            |          | 17WE5200750-Z53V |
| 80  | 92,2  | 8,1 | 82    | 1   | 4      | 85,32 x 3,53       |            |          | 17WE5200800-Z54V |
| 80  | 92,2  | 8,1 | 82    | 1   | 4      | 85,32 x 3,53       |            |          | 17WE5200800-Z53V |
| 85  | 97,2  | 8,1 | 87    | 1   | 4      | 88,49 x 3,53       |            |          | 17WE5200850-Z53V |
| 90  | 102,2 | 8,1 | 92    | 1   | 4      | 94,84 x 3,53       |            |          | 17WE5200900-Z53V |
| 90  | 102,2 | 8,1 | 92    | 1   | 4      | 94,84 x 3,53       |            |          | 17WE5200900-Z54V |
| 100 | 112,2 | 8,1 | 102   | 1   | 4      | 104,37 x 3,53      |            |          | 17WE5201000-Z53V |
| 100 | 112,2 | 8,1 | 102   | 1   | 4      | 104,37 x 3,53      |            |          | 17WE5201000-Z54V |
| 110 | 122,2 | 8,1 | 112   | 1   | 4      | 113,89 x 3,53      |            |          | 17WE5201100-Z53V |
| 110 | 122,2 | 8,1 | 112   | 1   | 4      | 113,89 x 3,53      |            |          | 17WE5201100-Z54V |
| 115 | 127,2 | 8,1 | 117   | 1   | 4      | 120,24 x 3,53      |            |          | 17WE5201150-Z53V |
| 120 | 132,2 | 8,1 | 122   | 1   | 4      | 123,42 x 3,53      |            |          | 17WE5201200-Z80V |
| 125 | 137,2 | 8,1 | 127   | 1   | 4      | 129,77 x 3,53      |            |          | 17WE5201250-Z53V |
| 125 | 137,2 | 8,1 | 127   | 1   | 4      | 129,77 x 3,53      |            |          | 17WE5201250-Z54V |
| 130 | 142,2 | 8,1 | 132   | 1   | 4      | 136,12 x 3,53      |            |          | 17WE5201300-Z53V |
| 135 | 147,2 | 8,1 | 137   | 1   | 4      | 139,29 x 3,53      |            |          | 17WE5201350-Z53V |
| 140 | 156   | 9,5 | 142,5 | 1,5 | 5      | 145,42 x 5,33      |            |          | 17WE5301400-Z54V |
| 140 | 156   | 9,5 | 142,5 | 1,5 | 5      | 145,42 x 5,33      |            |          | 17WE5301400-Z53V |

The material Zurcon® Z51 has been changed in Zurcon® Z53  
The material Zurcon® Z52 has been changed in Zurcon® Z54

**17WE5...-Z...V**

## Example of item code

|               |               |                 |                      |   |            |            |
|---------------|---------------|-----------------|----------------------|---|------------|------------|
| 17            | WE51          | 0               | 0550                 | - | Z53        | V          |
| Sealtech code | Profile serie | Type (standard) | Diameter d (mm x 10) |   | Material ① | Material ② |



✕ Machining of housings: see pages 48-49

**17WE5...-Z...V** Zurcon® Excluder® 5 wiper has two different functions. It prevents introduction of dust, dirt and foreign matter into the system and on the medium side holds back the residual oil film passing the rod seal.

This wiper is composed of a dynamic PU ring with a scraper lip respectively sealing lip positioned back-to-back.

The material used for this wiper is Z53, a hard casted polyurethane which has a very high abrasion and extrusion resistance and can also be used on counter surfaces with rougher surface finish

Compared to Turcon materials, it cannot withstand such high speeds or high temperatures and has also limited chemical resistance.

The elastomer O-ring on the static side works as an energising ring and pressurises the scraper lips against the sliding surface and thereby can also compensate deflections of the piston rod. If necessary, different O-ring materials can be chosen to suit the application.

The scraper is preferably used in conjunction with rod seals with a hydrodynamic **back-pumping function** or a drainage channel must be opened in this area.

**Operating conditions**

✕ see page 8

|             |                   |
|-------------|-------------------|
| Temperature | -20°C to 200°C    |
| Speed       | ≤ 2 m/s           |
| Fluids      | ✕ see pages 22-45 |

**Materials**

✕ see pages 54-59

|                           |                     |
|---------------------------|---------------------|
| Dynamic sealing element ① | Zurcon® Z53         |
| Energising element ②      | FPM 75 Sh A: code V |

**Assembly**

✕ see pages 54-59

O-ring and dynamic sealing element may easily be mounted into the grooved housing (above 30 mm)

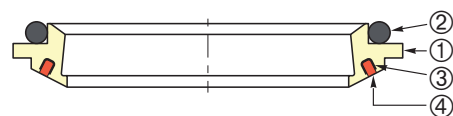
**Advantages**

- Low running friction
- Can compensate rod deflections
- Very good scraping effect against impurities and also from the inside against the residual oil film
- Suitable for heavy duty applications
- Extended service life
- Simple groove construction

| Serie | D (mm)         |                | L (mm) | D (mm)   | C (mm)  | a min. (mm) | O-ring C/S ② |
|-------|----------------|----------------|--------|----------|---------|-------------|--------------|
|       | Standard range | Extended range |        |          |         |             |              |
| WE50  | 19 → 39,9      | 19 → 100       | 4,2    | d + 7,6  | d + 1,5 | 3           | 2,62         |
| WE51  | 40 → 69,9      | 30 → 200       | 6,3    | d + 8,8  | d + 1,5 | 3           | 2,62         |
| WE52  | 70 → 139,9     | 70 → 360       | 8,1    | d + 12,2 | d + 2   | 4           | 3,53         |
| WE53  | 140 → 399,9    | 100 → 650      | 9,5    | d + 16   | d + 2,5 | 5           | 5,34         |
| WE54  | 400 → 649,9    | 200 → 650      | 14     | d + 24   | d + 2,5 | 8           | 7            |
| WE55  | 650 → 999,9    | 400 → 999,9    | 16     | d + 27,3 | d + 2,5 | 10          | 8,4          |
| WE55X | > 1000         |                | 16     | d + 27,3 | d + 2,5 | 10          | 8,4          |

| d   | D   | L   | C     | r   | a min. | O-ring FPM 75 Sh A | ISO 6195/D | ISO 3320 | Reference        |
|-----|-----|-----|-------|-----|--------|--------------------|------------|----------|------------------|
| 150 | 166 | 9,5 | 152,5 | 1,5 | 5      | 151,77 x 5,33      |            |          | 17WE5301500-Z53V |
| 150 | 166 | 9,5 | 152,5 | 1,5 | 5      | 151,77 x 5,33      |            |          | 17WE5301500-Z54V |
| 160 | 176 | 9,5 | 162,5 | 1,5 | 5      | 164,47 x 5,33      | •          | •        | 17WE5301600-Z53V |
| 160 | 176 | 9,5 | 162,5 | 1,5 | 5      | 164,47 x 5,33      | •          | •        | 17WE5301600-Z54V |
| 160 | 176 | 9,5 | 162,5 | 1,5 | 5      | 164,47 x 5,33      | •          | •        | 17WE5301600-Z80V |
| 170 | 186 | 9,5 | 172,5 | 1,5 | 5      | 177,17 x 5,33      |            |          | 17WE5301700-Z53V |
| 180 | 196 | 9,5 | 182,5 | 1,5 | 5      | 183,52 x 5,33      | •          | •        | 17WE5301800-Z53V |
| 180 | 196 | 9,5 | 182,5 | 1,5 | 5      | 183,52 x 5,33      | •          | •        | 17WE5301800-Z54V |
| 200 | 216 | 9,5 | 202,5 | 1,5 | 5      | 202,57 x 5,33      | •          | •        | 17WE5302000-Z53V |
| 200 | 216 | 9,5 | 202,5 | 1,5 | 5      | 202,57 x 5,33      | •          | •        | 17WE5302000-Z54V |
| 200 | 216 | 9,5 | 202,5 | 1,5 | 5      | 202,57 x 5,33      | •          | •        | 17WE5302000-Z80V |
| 220 | 236 | 9,5 | 222,5 | 1,5 | 5      | 221,62 x 5,33      | •          | •        | 17WE5302200-Z53V |
| 220 | 236 | 9,5 | 222,5 | 1,5 | 5      | 221,62 x 5,33      | •          | •        | 17WE5302200-Z54V |
| 240 | 256 | 9,5 | 242,5 | 1,5 | 5      | 247,02 x 5,33      |            |          | 17WE5302400-Z53V |
| 240 | 256 | 9,5 | 242,5 | 1,5 | 5      | 247,02 x 5,33      |            |          | 17WE5302400-Z54V |
| 250 | 266 | 9,5 | 252,5 | 1,5 | 5      | 253,37 x 5,33      | •          | •        | 17WE5302500-Z53V |
| 280 | 296 | 9,5 | 282,5 | 1,5 | 5      | 278,77 x 5,33      | •          | •        | 17WE5302800-Z54V |
| 400 | 424 | 14  | 402,5 | 1,5 | 8      | 405,26 x 7         |            |          | 17WE5404000-Z54V |

The material Zurcon® Z51 has been changed in Zurcon® Z53  
The material Zurcon® Z52 has been changed in Zurcon® Z54

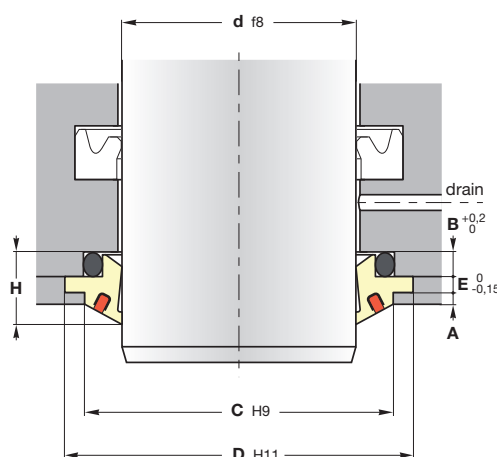


## 17WEY

## Example of item code

17 WEYB 190893 - Z80 N

Sealtech code   Profile   Module TSS   Material ①   Material ②



✕ Machining of housings: see pages 48-49

**17WEY** Zurcon® Excluder® S is a double acting wiper especially suitable for “off shore” cylinders and for cylinders working under sea level.

The V-spring maintains a permanent force on the scraping edge. The spring is also filled with silicone to prevent contamination blocking the spring. The internal O-ring activates the sealing lip and assures a good scraping effect from the residual oil film adhering on the rod.

The standard material for this wiper is Zurcon® Z80, which has a high abrasion resistance and good chemical resistance.

In order to avoid any possible hydrodynamic pressure problems between the rod seal and the wiper, it is preferably to use a rod seal with a hydrodynamic **back-pumping function** or otherwise to place a drain line. (pressure resistance up to 1,5 MPa)

## Operating conditions

✕ see page 8

Temperature -30°C to 80°C  
Speed ≤ 2 m/s  
Fluids ✕ see pages 22-45

## Materials

✕ see pages 10-19

Body ① Zurcon® Z80  
Energising element ② N = NBR 70 Sh A  
Spring ③ stainless steel  
Spring cavity ④ with red silicone filled

## Assembly

✕ see pages 54-59

In two-piece housings

## Advantages

Good result with “Off shore” cylinders and with cylinders which are working under the sea level

Very good scraping effect in very hard and abrasive environments, even against firmly adherent dirt (ice, sand, concrete...)

Can be used at very low temperatures with the right O-ring (-60°C)

Prevents moisture and contaminations being trapped in front of the scraper in applications where the rod is pointing upwards

Please contact us for applications approaching maximum values.

## More information

On [www.sealtech-business.be](http://www.sealtech-business.be), click first on the reference and then on the material code to obtain the data sheet of the different materials.

| d   | D     | H   | C     | E   | B   | A   | O-ring<br>NBR 70 Sh A | Reference         |
|-----|-------|-----|-------|-----|-----|-----|-----------------------|-------------------|
| 28  | 40    | 7,2 | 35,3  | 1,8 | 2,2 | 1,2 | 01 178 3147           | 17WEYB191116-Z80N |
| 36  | 48    | 7,2 | 43,3  | 1,8 | 2,2 | 1,2 | 01 178 4100           | 17WEYB191117-Z80N |
| 50  | 68,7  | 12  | 61,3  | 2,5 | 4,2 | 2   | 01 353 5357           | 17WEYB190860-Z80N |
| 60  | 78,7  | 12  | 71,3  | 2,5 | 4,2 | 2   | 01 353 6309           | 17WEYB190893-Z80N |
| 63  | 81,7  | 12  | 74,3  | 2,5 | 4,2 | 2   | 01 353 6627           | 17WEYB190894-Z80N |
| 70  | 88,7  | 12  | 81,3  | 2,5 | 4,2 | 2   | 01 353 7579           | 17WEYB190959-Z80N |
| 80  | 98,7  | 12  | 91,3  | 2,5 | 4,2 | 2   | 01 353 8532           | 17WEYB190856-Z80N |
| 90  | 108,7 | 12  | 101,3 | 2,5 | 4,2 | 2   | 01 353 9167           | 17WEYB190857-Z80N |
| 100 | 118,7 | 12  | 111,3 | 2,5 | 4,2 | 2   | 01 353 10119          | 17WEYB190917-Z80N |
| 120 | 138,7 | 12  | 131,3 | 2,5 | 4,2 | 2   | 01 353 12342          | 17WEYB190960-Z80N |
| 130 | 148,7 | 12  | 141,3 | 2,5 | 4,2 | 2   | 01 353 13294          | 17WEYB191014-Z80N |
| 140 | 158,7 | 12  | 151,3 | 2,5 | 4,2 | 2   | 01 353 14247          | 17WEYB191015-Z80N |