



**WE3-T46V** 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 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

Temperature	-10°C to 180°C
Speed	≤ 15 m/s

#### Materials

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

#### Assembly

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

d	D	L	C	r	a <sub>min.</sub>	O-ring FPM 75 Sh A	ISO 6195/D	Reference
12	18,8	5	13,5	0,8	2	13,94 x 2,62	•	WE3100120-T46V
16	22,8	5	17,5	0,8	2	18,72 x 2,62	•	WE3100160-T46V
20	26,8	5	21,5	0,8	2	21,89 x 2,62	•	WE3100200-T46V
22	28,8	5	23,5	0,8	2	23,47 x 2,62	•	WE3100220-T46V
25	31,8	5	26,5	0,8	2	26,64 x 2,62	•	WE3100250-T46V
28	34,8	5	29,5	0,8	2	29,82 x 2,62	•	WE3100280-T46V
30	36,8	5	31,5	0,8	2	31,42 x 2,62	•	WE3100300-T46V
35	41,8	5	36,5	0,8	2	36,17 x 2,62	•	WE3100350-T46V
36	42,8	5	37,5	0,8	2	37,77 x 2,62	•	WE3100360-T46V
40	46,8	5	41,5	0,8	2	42,52 x 2,62	•	WE3100400-T46V
45	51,8	5	46,5	0,8	2	47,29 x 2,62	•	WE3100450-T46V
50	56,8	5	51,5	0,8	2	52,07 x 2,62	•	WE3100500-T46V
55	61,8	5	56,5	0,8	2	56,82 x 2,62	•	WE3100550-T46V
60	66,8	5	61,5	0,8	2	61,6 x 2,62	•	WE3100600-T46V
70	78,8	6	71,5	1	3	72,62 x 3,53	•	WE3200700-T46V
90	98,8	6	91,5	1	3	91,67 x 3,53	•	WE3200900-T46V
100	108,8	6	101,5	1	3	104,37 x 3,53	•	WE3201000-T46V
110	118,8	6	111,5	1	3	113,89 x 3,53	•	WE3201100-T46V

Serie	D (mm)		L (mm)	D (mm)	C (mm)	a <sub>min.</sub> (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