



WE5-T46V 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 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**.

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 _{min.}	O-ring FPM 75 Sh A	ISO 6195/D	Reference
25	32,6	4,2	26,5	0,8	3	28,24 x 2,62	•	WE5000250-T46V
28	35,6	4,2	29,5	0,8	3	29,82 x 2,62	•	WE5000280-T46V
30	37,6	4,2	31,5	0,8	3	32,99 x 2,62		WE5000300-T46V
32	39,6	4,2	33,5	0,8	3	34,59 x 2,62	•	WE5000320-T46V
36	43,6	4,2	37,5	0,8	3	39,34 x 2,62	•	WE5000360-T46V
40	48,8	6,3	41,5	0,8	3	44,12 x 2,62	•	WE5100400-T46V
45	53,8	6,3	46,5	0,8	3	48,9 x 2,62	•	WE5100450-T46V
50	58,8	6,3	51,5	0,8	3	53,64 x 2,62	•	WE5100500-T46V
55	63,8	6,3	56,5	0,8	3	58,42 x 2,62		WE5100550-T46V
56	64,8	6,3	57,5	0,8	3	59,99 x 2,62	•	WE5100560-T46V
60	68,8	6,3	61,5	0,8	3	63,17 x 2,62		WE5100600-T46V
63	71,8	6,3	64,5	0,8	3	66,34 x 2,62	•	WE5100630-T46V
65	73,8	6,3	66,5	0,8	3	67,95 x 2,62		WE5100650-T46V
70	82,2	8,1	72	1	4	75,79 x 3,53	•	WE5200700-T46V
75	87,2	8,1	77	1	4	78,97 x 3,53		WE5200750-T46V
80	92,2	8,1	82	1	4	85,32 x 3,53	•	WE5200800-T46V
85	97,2	8,1	87	1	4	88,49 x 3,53		WE5200850-T46V
90	102,2	8,1	92	1	4	94,84 x 3,53	•	WE5200900-T46V
100	112,2	8,1	102	1	4	104,37 x 3,53	•	WE5201000-T46V
110	122,2	8,1	112	1	4	113,89 x 3,53	•	WE5201100-T46V
125	137,2	8,1	127	1	4	129,77 x 3,53	•	WE5201250-T46V

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