

WE5-T46N 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	-30°C to 100°C
Speed	≤ 15 m/s

Materials

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

Assembly

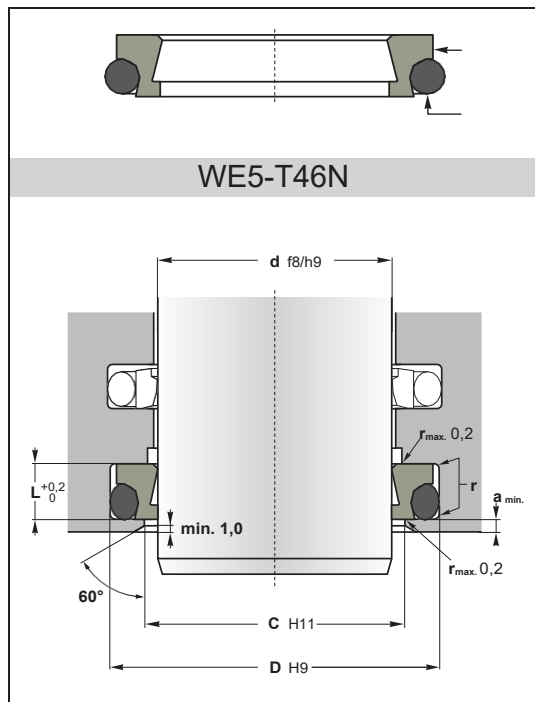
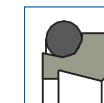
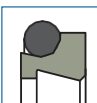
O-ring and dynamic sealing element may easily be mounted into the grooved housing (above 30 mm)

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

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	Reference
20	27,6	4,2	21,5	0,8	3	21,89 x 2,62	•	WE5000200-T46N
25	32,6	4,2	26,5	0,8	3	28,24 x 2,62	•	WE5000250-T46N
28	35,6	4,2	29,5	0,8	3	29,82 x 2,62	•	WE5000280-T46N
30	37,6	4,2	31,5	0,8	3	32,99 x 2,62		WE5000300-T46N
32	39,6	4,2	33,5	0,8	3	34,59 x 2,62	•	WE5000320-T46N
35	42,6	4,2	36,5	0,8	3	37,77 x 2,62		WE5000350-T46N
36	43,6	4,2	37,5	0,8	3	39,34 x 2,62	•	WE5000360-T46N
40	48,8	6,3	41,5	0,8	3	44,12 x 2,62	•	WE5100400-T46N
45	53,8	6,3	46,5	0,8	3	48,9 x 2,62	•	WE5100450-T46N
50	58,8	6,3	51,5	0,8	3	53,64 x 2,62	•	WE5100500-T46N
55	63,8	6,3	56,5	0,8	3	58,42 x 2,62		WE5100550-T46N
56	64,8	6,3	57,5	0,8	3	59,99 x 2,62	•	WE5100560-T46N
60	68,8	6,3	61,5	0,8	3	63,17 x 2,62		WE5100600-T46N
63	71,8	6,3	64,5	0,8	3	66,34 x 2,62	•	WE5100630-T46N
65	73,8	6,3	66,5	0,8	3	67,95 x 2,62		WE5100650-T46N
70	82,2	8,1	72	1	4	75,79 x 3,53	•	WE5200700-T46N
75	87,2	8,1	77	1	4	78,97 x 3,53		WE5200750-T46N
80	92,2	8,1	82	1	4	85,32 x 3,53	•	WE5200800-T46N
85	97,2	8,1	87	1	4	88,49 x 3,53		WE5200850-T46N
90	102,2	8,1	92	1	4	94,84 x 3,53	•	WE5200900-T46N
100	112,2	8,1	102	1	4	104,37 x 3,53	•	WE5201000-T46N
105	117,2	8,1	107	1	4	110,72 x 3,53		WE5201050-T46N
110	122,2	8,1	112	1	4	113,89 x 3,53	•	WE5201100-T46N
115	127,2	8,1	117	1	4	120,24 x 3,53		WE5201150-T46N
120	132,2	8,1	122	1	4	123,42 x 3,53		WE5201200-T46N
125	137,2	8,1	127	1	4	129,77 x 3,53	•	WE5201250-T46N
130	142,2	8,1	132	1	4	136,12 x 3,53		WE5201300-T46N
135	147,2	8,1	137	1	4	139,29 x 3,53		WE5201350-T46N
140	156	9,5	142,5	1,5	5	145,42 x 5,34	•	WE5301400-T46N
150	166	9,5	152,5	1,5	5	158,12 x 5,34		WE5301500-T46N
160	176	9,5	162,5	1,5	5	164,47 x 5,34	•	WE5301600-T46N
170	186	9,5	172,5	1,5	5	177,17 x 5,34		WE5301700-T46N
180	196	9,5	182,5	1,5	5	183,52 x 5,34	•	WE5301800-T46N
200	216	9,5	202,5	1,5	5	202,57 x 5,34	•	WE5302000-T46N
220	236	9,5	222,5	1,5	5	227,97 x 5,34	•	WE5302200-T46N
230	246	9,5	232,5	1,5	5	234,32 x 5,34		WE5302300-T46N
240	256	9,5	242,5	1,5	5	247,02 x 5,34		WE5302400-T46N
250	266	9,5	252,5	1,5	5	253,37 x 5,34	•	WE5302500-T46N
260	276	9,5	262,5	1,5	5	266,07 x 5,34		WE5302600-T46N
280	296	9,5	282,5	1,5	5	291,47 x 5,34	•	WE5302800-T46N
285	201	9,5	287,5	1,5	5	291,47 x 5,34		WE5302850-T46N
300	316	9,5	302,5	1,5	5	304,17 x 5,34		WE5303000-T46N



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d	D	L	C	r	a _{min.}	O-ring NBR 70 Sh A	ISO 6195/D	Reference
310	326	9,5	312,5	1,5	5	315 x 5,3		WE5303100-T46N
320	336	9,5	322,5	1,5	5	329,57 x 5,34	•	WE5303200-T46N
340	356	9,5	342,5	1,5	5	340,00 x 5,34		WE5303400-T46N
350	366	9,5	352,5	1,5	5	354,97 x 5,34		WE5303500-T46N
360	376	9,5	362,5	1,5	5	366,34 x 5,34	•	WE5303600-T46N
400	424	14	402,5	1,5	5	405,26 x 7		WE5404000-T46N

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