



WE5-Z53N 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

Temperature	-30°C to 100°C
Speed	≤ 2 m/s

Materials

Dynamic sealing element ①	Zurcon® Z53
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

- 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	Reference
20	27,6	4,2	21,5	0,8	3	21,89 x 2,62		WE5000200-Z53N
25	32,6	4,2	26,5	0,8	3	28,24 x 2,62		WE5000250-Z53N
28	35,6	4,2	29,5	0,8	3	29,82 x 2,62		WE5000280-Z53N
30	37,6	4,2	31,5	0,8	3	32,99 x 2,62		WE5000300-Z53N
32	39,6	4,2	33,5	0,8	3	34,59 x 2,62	•	WE5000320-Z53N
36	43,6	4,2	37,5	0,8	3	39,34 x 2,62	•	WE5000360-Z53N
40	48,8	6,3	41,5	0,8	3	44,12 x 2,62	•	WE5100400-Z53N
45	53,8	6,3	46,5	0,8	3	48,9 x 2,62	•	WE5100450-Z53N
55	63,8	6,3	56,5	0,8	3	58,42 x 2,62		WE5100550-Z53N
56	64,8	6,3	57,5	0,8	3	59,99 x 2,62	•	WE5100560-Z53N
60	68,8	6,3	61,5	0,8	3	63,17 x 2,62		WE5100600-Z53N
63	71,8	6,3	64,5	0,8	3	66,34 x 2,62	•	WE5100630-Z53N
65	73,8	6,3	66,5	0,8	3	67,95 x 2,62		WE5100650-Z53N
70	82,2	8,1	72	1	4	75,79 x 3,53	•	WE5200700-Z53N
75	87,2	8,1	77	1	4	78,97 x 3,53		WE5200750-Z53N
80	92,2	8,1	82	1	4	85,32 x 3,53	•	WE5200800-Z53N
85	97,2	8,1	87	1	4	88,49 x 3,53		WE5200850-Z53N
90	102,2	8,1	92	1	4	94,84 x 3,53	•	WE5200900-Z53N
100	112,2	8,1	102	1	4	104,37 x 3,53	•	WE5201000-Z53N
105	117,2	8,1	107	1	4	110,72 x 3,53		WE5201050-Z53N
110	122,2	8,1	112	1	4	113,89 x 3,53	•	WE5201100-Z53N
115	127,2	8,1	117	1	4	120,24 x 3,53		WE5201150-Z53N
120	132,2	8,1	122	1	4	123,42 x 3,53		WE5201200-Z53N
125	137,2	8,1	127	1	4	129,77 x 3,53	•	WE5201250-Z53N
130	142,2	8,1	132	1	4	136,12 x 3,53		WE5201300-Z53N
135	147,2	8,1	137	1	4	139,29 x 3,53		WE5201350-Z53N
140	156	9,5	142,5	1,5	5	145,42 x 5,34	•	WE5301400-Z53N
150	166	9,5	152,5	1,5	5	158,12 x 5,34		WE5301500-Z53N
160	176	9,5	162,5	1,5	5	164,47 x 5,34	•	WE5301600-Z53N
170	186	9,5	172,5	1,5	5	177,17 x 5,34		WE5301700-Z53N
200	216	9,5	202,5	1,5	5	202,57 x 5,34	•	WE5302000-Z53N
220	236	9,5	222,5	1,5	5	227,97 x 5,34	•	WE5302200-Z53N
240	256	9,5	242,5	1,5	5	247,02 x 5,34		WE5302400-Z53N
250	266	9,5	252,5	1,5	5	253,37 x 5,34	•	WE5302500-Z53N