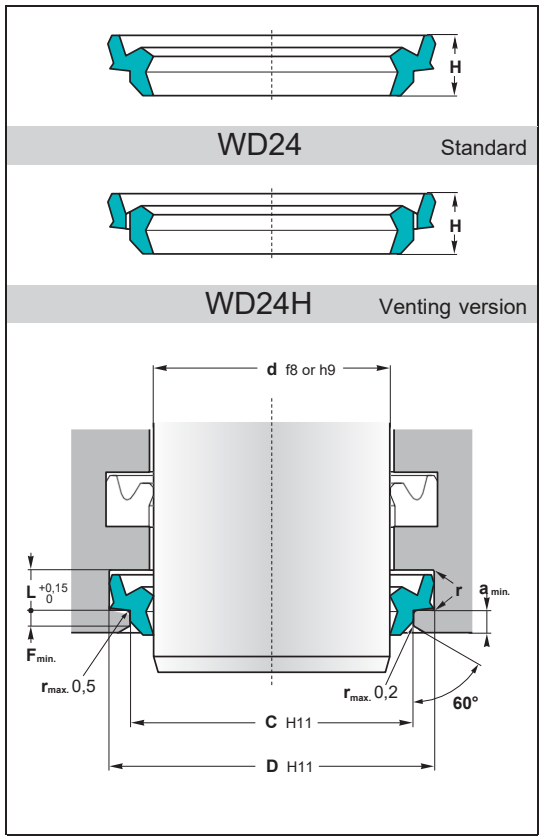
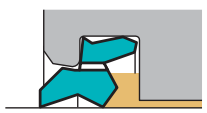
HydraulicSeals24.com

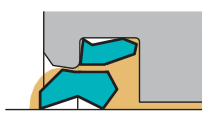


Explanation of the Venting version.

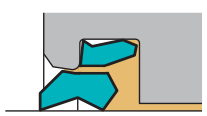


1 Oil is coming between the seal and **WD24H** double-acting wiper.

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.

WD24 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.

WD24H 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 **WD24**, it is preferably to use a rod seal with a hydrodynamic **back-pumping function**.

Operating conditions

Pressure	
WD24	≤ 5 MPa
WD24H	≤ 2 MPa
Temperature	-30°C to 100°C
Speed	≤ 0,5 m/s

Materials

Polyurethane	Zurcon® Z201

Assembly

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.

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