



WDR ASY

Rotary shaft seal equivalent to WA type in the Y design, pressurisable. It has a shorter, stronger, spring energised sealing lip. In addition, this model is available with a protective lip (ASY) on the air side.

Description

Product group: Rotary shaft seal

Design: A = outer surface rubber-coated

Model: SY = sealing lip and protective lip pressurisable

Seal material: NBR 80 3414

Colour: Blue

Stiffening ring: non-alloy steel according to DIN EN 10139

Tension spring: non-alloy spring steel according to DIN EN 10270-1

Areas of application

Sealing of rotating machine elements such as shafts, hubs and axles when pressurized. The main area of application is in pressurized systems such as pumps and hydro-motors.

Function

The ASY is a single-action rotary shaft seal for rotating or pivoting shafts with optional protective lip sealing action (ASY) on the side facing away from the medium, against dirt accumulation from the outside. The shorter, thicker, spring-energized sealing lip enables pressure application of up to 10 bar (depending on the rotational speed). The elastomer outer sheath provides good static sealing, good thermal expansion balance, e.g. in light-metal housing, better sealing with greater roughness and secure sealing for split housings as well as good static sealing with thin fluid or gaseous media.

Media

Good chemical resistance to many mineral oils and greases.

Operational application limits

Pressure (Mpa/bar): ≤ 10 bar depending on the rotational speed See next page:

Temperature (°C): -40 to +100

Peripheral speed (m/s): ≤ 10

Installation

Suitable tools should be used for installation. It is recommended that the installation housing is designed to provide the rotary shaft seal with axial support.



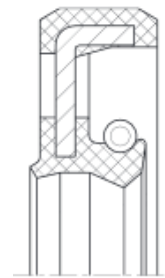
Pressure-loadable type ASY

For pressure differences greater than 0.5 bar, pulsating pressures and vacuum applications the type ASY is recommended.

This type is fitted with a short, reinforced sealing lip and a drawn-down metal cage (stabilised embrane). This reduces the increase in contact pressure resulting from the pressure and thus also the increased frictional energy and, where applicable, premature wear.

Due to its reinforcement the sealing lip is also prevented, within certain limits, from turning over to the air side if the pressure is too high. Depending on the rotational speed, the type ASY is pressure-loadable up to max. 10 bar (see table).

Pressure difference [bar]	Rotational speed [1/min]	max. peripheral speed [m/s]
up to 10	< 500	0.6
4.5	1.000	2.7
2.4	2.000	5.9
1.3	3.000	8.4
0.6	4.000	11.3





Technical data sheet in accordance with ASTM

Material NBR NB803414

blue

cross linking: sulfur

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Physical properties	nominal range	typical values	
Density ASTM D 1817	1.52 ±0.02	1.52	g/cm ³
Hardness ASTM D2240, Shore A	80 ±5	80	Shore
Tensile strength ASTM D412	---	15.6	MPa
Elongation at Break ASTM D412	---	432	%
Compression set ASTM D395, B, 22 h, 100 °C, 25 %	---	11	%

Declarations of conformity

	Country	Part	Remark	Expires	unlimited
RoHS			Restricted substances in electrical and electronic equipment		<input checked="" type="checkbox"/>

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No ASTM D2000 properties available

The given values are based on a limited number of tests on standard test pieces (2mm sheets). The data from finished parts can deviate from above values depending on the manufacturing process and the component geometry.

The data represents our present empirical values. It is incumbent on the person placing the order to examine whether it is suitable for its intended purpose, before using the product. All questions regarding the guarantee of this product are in line with our terms and conditions, inasmuch as statutory provisions do not plan for something else.

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