HYDROSEALS

ALWAYS A SUITABLE SOLUTION

Your Partner for Sealing Technology

why Hydroseals

We guarantee quality and service, so you can always rely on the best sealing solutions for your machines. We supply hydraulic seals, kits, cylinder parts and tools.
When it comes to hydraulics, you have come to the right place.

Expert advice

Through years of experience in hydraulics, we understand that the correct seals are essential for the optimal functioning of your hydraulic cylinders and machines.

Large stock

The hydraulics partner that has it all. Seals, seal kits, customer-specific kits, cylinder parts and various tools. We do more than you think and we are proud of that!

All in one

An extensive range of seals and seal kits. We always have a large number of seals in stock so that we can help you as quickly as possible.

Personal support

We will work with you to find a suitable solution and are committed to providing you with the most sustainable and effective sealing solutions.

Please feel free to contact us

Do you need advice, are you unsure which product is right for you or would you like a custom-made solution?

You can reach us every working day from 8:30 AM to 5:00 PM

info@hydroseals.nl
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www.hydroseals.nl

Contents

Hydraulic

Wipers I
Rod seals III
Piston seals V
Static seals VII
Oil seals VIII
Rotor seals VIII
Guiderings IX

Pneumatic

Rod seals X
Piston seals XI
Static seals XII

Hunger

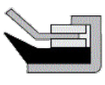
Hunger seals XIII

Other

Fluid Compatibility Table XIV
Faulty seals XV
Hydraulic tools XVII

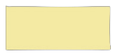
AFSTRIJKERS | WIPERS | ABSTREIFERS

Name	Profile	Material	Pressure	Temp	Speed	Page
MSWE		PU	-	-40°C / +100°C	≤ 1 m/s	
MSWN		NBR	-	-40°C / +100°C	≤ 1 m/s	
MSWS		PU	-	-40°C / +100°C	≤ 1 m/s	
MSWSN		NBR	-	-40°C / +100°C	≤ 1 m/s	
MSWH		PU	-	-40°C / +100°C	≤ 1 m/s	
MSWHN		NBR	-	-40°C / +100°C	≤ 1 m/s	
MSWP		PU	-	-40°C / +100°C	≤ 1 m/s	
MW38		PU	-	-40°C / +100°C	≤ 1 m/s	
MCSW		Termo	-	-40°C / +100°C	≤ 1 m/s	
MDK		PU	-	-40°C / +100°C	≤ 1 m/s	
MSWH24		PU	-	-30°C / +100°C	≤ 1 m/s	
MSWE-XLF		PU	-	-40°C / +100°C	≤ 1 m/s	

Name	Profile	Material	Pressure	Temp	Speed	Page
MSWSHN		NBR	-	-40°C / +100°C	≤ 1 m/s	
MCKBI		PU + Steel	-	-40°C / +100°C	≤ 1 m/s	
MCKB		NBR + Steel	-	-40°C / +100°C	≤ 1 m/s	
MCWE		PU + Steel	-	-40°C / +100°C	≤ 1 m/s	
MCWN		NBR + Steel	-	-40°C / +100°C	≤ 1 m/s	
MDSU		PU + Steel	-	-40°C / +100°C	≤ 1 m/s	
MDS		NBR + Steel	-	-40°C / +100°C	≤ 1 m/s	
MCW70		COPPER + NBR	-	-40°C / +100°C	≤ 1 m/s	
MCU		PU + Steel	-	-40°C / +100°C	≤ 1 m/s	
MWTF		NBR + PTFE	-	-40°C / +100°C	≤ 1 m/s	
MWTF-PU		PU + PTFE	-	-40°C / +100°C	≤ 1 m/s	

STANGAFDICHTINGEN | ROD SEALS | STANGENDICHTUNGEN

Name	Profile	Material	Pressure	Temp	Speed	Page
MUU		PU	≤ 400	-30°C / +100°C	≤ 0,5 m/s	
MUSN		NBR	≤ 150	-40°C / +100°C	≤ 0,5m/s	
MRTU		PU	≤ 400	-30°C / +100°C	≤ 0,5 m/s	
MUKRN		NBR	≤ 150	-40°C / +100°C	≤ 0,5 m/s	
MYR		PU	≤ 500	-40°C / +100°C	≤ 0,5 m/s	
MSMR		NBR	≤ 600	-40°C / +100°C	≤ 0,5 m/s	
MYR-H616		PU	≤ 500	-40°C / +100°C	≤ 0,5 m/s	
MRU		PU	≤ 400	-40°C / +100°C	≤ 0,5 m/s	
MUFN		NBR + CANVAS	≤ 250	-40°C / +100°C	≤ 0,5 m/s	
MUFN-EI		NBR + CANVAS	≤ 400	-40°C / +100°C	≤ 0,5 m/s	
MUUL		PU	≤ 400	-30°C / +100°C	≤ 0,5 m/s	
MRTUB		PU + POM	≤ 700	-40°C / +100°C	≤ 0,5 m/s	

Name	Profile	Material	Pressure	Temp	Speed	Page
MKR		PTFE + NBR	≤ 600	-30°C / +130°C	≤ 5 m/s	
MKR-PU		PU + NBR	≤ 600	-30°C / +130°C	≤ 5 m/s	
MVS		NBR + CANVAS	≤ 400	-40°C / +100°C	≤ 1 m/s	
MIR		PU	≤ 400	-40°C / +100°C	≤ 1 m/s	
TR		NBR + POM	≤ 345	-40°C / +100°C	≤ 1 m/s	
SAM - SAL - EDBRO		NBR + CANVAS	≤ 400	-40°C / +100°C	≤ 1 m/s	
MYBR		PTFE + NBR	≤ 400	-40°C / +100°C	≤ 5 m/s	

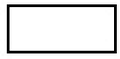
ZUIGERAFDICHTINGEN | PISTON SEALS | KOLBENDICHTUNGEN

Name	Profile	Material	Pressure	Temp	Speed	Page
MUFN-PWO		NBR + Canvas	≤ 500	-30°C / +100°C	≤ 0.5m/s	
MPU		PU	≤ 400	-40°C / +100°C	≤ 0.5 m/s	
MUKPN		NBR	≤ 80	-30°C / +100°C	≤ 1 m/s	
MPUW		PU + POM	≤ 400	-40°C / +100°C	≤ 0.5 m/s	
MSFD		NBR + Canvas	≤ 400	-30°C / +100°C	≤ 0.5 m/s	
MPUB		PU + POM	≤ 500	-40°C / +100°C	≤ 0.5 m/s	
MPSA		NBR + POM	≤ 400	-30°C / +100°C	≤ 0.5 m/s	
MPSA-58		NBR + POM	≤ 400	-30°C / +100°C	≤ 0.5 m/s	
MPSA-PDE		NBR + POM	≤ 600	-30°C / +110°C	≤ 0.5 m/s	
MPSA-59		NBR + POM	≤ 500	-30°C / +100°C	≤ 0.5 m/s	
MPS2000		NYLON + NBR	≤ 500	-30°C / +110°C	≤ 1 m/s	
MPS		PTFE + NBR	≤ 400	-30°C / +130°C	≤ 5 m/s	

Name	Profile	Material	Pressure	Temp	Speed	Page
MKPD		PU + NBR	≤ 400	-40°C / +105°C	≤ 0.5 m/s	
MPSU300		PU + NBR	≤ 400	-40°C / +100°C	≤ 1 m/s	
MCPS		PTFE + NBR	≤ 500	-30°C / +110°C	≤ 5 m/s	
MDPCS		NBR + Steel	≤ 60	-30°C / +105°C	≤ 0.5m/s	
TP		NBR + POM	≤ 345	-40°C / +100°C	≤ 1 m/s	
PSC		PU + NBR	≤ 400	-40°C / +105°C	≤ 1 m/s	

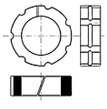
STATISCH | STATIC | STATISCH

Name	Profile	Material	Pressure	Temp	Speed	Page
OR70		NBR	-	-30°C / +100°C	-	
OR90		NBR	-	-25°C / +100°C	-	
ORV70		FKM	-	-15°C / +200°C	-	
ORV90		FKM	-	-20°C / +200°C	-	
ORC70		NBR	-	-30°C / +100°C	-	
ORC90		NBR	-	-25°C / +100°C	-	
XR70		NBR	-	-30°C / +100°C	-	
XR90		NBR	-	-30°C / +100°C	-	
XRV90		FKM	-	-30°C / +200°C	-	
XR70 *EP		EPDM	-	-40°C / +140°C	-	
MBC		NBR	-	-30°C / +100°C	-	
MBU		PU	-	-40°C / +120°C	-	

Name	Profile	Material	Pressure	Temp	Speed	Page
MBU		NBR	-	-30°C / +100°C	-	
MBN		NYLON	-	-55°C / +100°C	-	
MBT		POM + PTFE	-	-55°C / +200°C	-	
BS-20		NBR + STEEL	-	-40°C / +110°C	-	
BS-21 Self-Center		NBR + STEEL	-	-40°C / +110°C	-	
BSF-20		FKM + STEEL	-	-18°C / +200°C	-	
BSF-21 Self-Center		FKM + STEEL	-	-18°C / +200°C	-	
OP-Seals		PU	-	-35°C / +100°C	-	
SAE-Flens		PU	≤ 500	-35°C / +100°C	-	
D-Ringen		NBR	≤ 400	-30°C / +100°C	≤ 1 m/s	
FCS		NBR	-	-30°C / +100°C	-	

STATISCH | STATIC | STATISCH

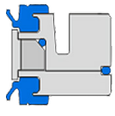
	Name	Profile	Material	Pressure	Temp	Speed	Page
OLIEKEERRING | OILSEALS | ÖLDICHTUNG	OS224SC		STEEL + PTFE	≤ 5	-40°C / +150°C	≤ 12 m/s	
	OS224TC / TCP		STEEL + NBR	≤ 5 ≤ 10	-30°C / +150°C	≤ 12 m/s ≤ 10 m/s	
	OS226PV		STEEL + FKM	≤ 10	-15°C / +200°C	≤ 10 m/s	
	OS221SC		STEEL + NBR	≤ 5	-20°C / +100°C	≤ 5 m/s	
	OS222SC		STEEL + NBR	≤ 5	-20°C / +100°C	≤ 5 m/s	
	OS223SC		STEEL + NBR	≤ 5	-20°C / +100°C	≤ 5 m/s	
ROTOR AFDICHTINGEN | ROTOR SEALS ROTOR DICHTUNGEN	RF715		PTFE + NBR	≤ 300	-30°C / +100°C	≤ 2 m/s	
	RF717		PTFE + CARBON	≤ 200	-100°C / +260°C	≤ 2 m/s	
	RF816		PU	≤ 400	-30°C / +110°C	≤ 1 m/s	
	RF716		PTFE + NBR	≤ 300	-30°C / +100°C	≤ 2 m/s	
	ROTO		NBR + CANVAS	≤ 180	-30°C / +110°C	≤ 0.1 m/s	
	V90		NBR	-	-30°C / +130°C	-	

Naam	Profiel	Materiaal	Druk	Temp	Snelheid	Page
MWRB		PHEN	-	-50°C / +130°C	≤ 1 m/s	
MWRB-TQ		POLY	-	-50°C / +130°C	≤ 1 m/s	
MWRT		PTFE	-	-75°C / +250°C	≤ 5 m/s	
MWRP		POM	-	-40°C / +130°C	≤ 1m/s	
GR25WP		POM	-	-40°C / +130°C	≤ 1 m/s	
MWRP-L		POM	-	-40°C / +130°C	≤ 1 m/s	
MGF - TAPE		PHEN / POLY	-	-50°C / +130°C	≤ 1 m/s	
MGB - TAPE		PTFE	-	-75°C / +250°C	≤ 1 m/s	
MDU		STEEL + PTFE	-	-60°C / +150°C	≤ 15 m/s	
MDU-K		STEEL + PTFE	-	-60°C / +150°C	≤ 15 m/s	
MDU-C		BRONZE	-	-40°C / +250°C	≤ 2.5 m/s	

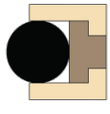
GELEIDING | GUIDING | FÜHRUNG

STANG AFDICHTINGEN | ROD SEALS | STANGENDICHTUNGEN

Naam	Profiel	Materiaal	Druk	Temp	Snelheid	Page
PA641		NBR + Canvas	≤ 120	-30°C / +110°C	≤ 0.25m/s	
PA642		PU	≤ 16	-30°C / +80°C	≤ 1 m/s	
PA643		NBR	≤ 120	-30°C / +100°C	≤ 1 m/s	
PVA643		FKM	≤ 120	-20°C / +200°C	≤ 1 m/s	
PA644		NBR + POM	≤ 160	-30°C / +105°C	≤ 1 m/s	
PA645		PU	≤ 10	-30°C / +80°C	≤ 1 m/s	
PA646		PU	≤ 10	-30°C / +90°C	≤ 1 m/s	

Name	Profile	Material	Pressure	Temp	SPeed	Page
PZA114		NBR + STEEL	≤ 160	-30°C / +100°C	≤ 1 m/s	
PZA115		NBR + STEEL	≤ 10	-20°C / +110°C	≤ 1 m/s	
PZA116		NBR + STEEL	≤ 12	-30°C / +105°C	≤ 1 m/s	
PZA117		PU + STEEL	-	-	-	
PZA119		NBR / PU	≤ 12	-20°C / +100°C	≤ 1 m/s	
PZA120		PU	≤ 12	-35°C / +80°C	≤ 1 m/s	
PZA121		NBR	≤ 10	-25°C / +100°C	≤ 1 m/s	
PZA125		NBR	≤ 12	-30°C / +105°C	≤ 1 m/s	
PZA127		NBR	≤ 12	-30°C / +105°C	≤ 1 m/s	
PZA128		NBR	≤ 16	-30°C / +80°C	≤ 1 m/s	

HUNGER

Name	Profile	Material	Pressure	Temp	Speed	Page
GDK		PUR, PTFE, BRONZE	≤ 360	-35°C / +120°C	≤ 1 m/s	
GD1000K		NBR, PTFE, BRONZE	≤ 360	-35°C / +120°C	≤ 1 m/s	
TDI		PU + PTFE	≤ 450	-35°C / +120°C	≤ 1 m/s	
TDT		PU	≤ 360	-35°C / +120°C	≤ 1 m/s	
TDMI		PU + PTFE	≤ 250	-35°C / +100°C	≤ 1 m/s	
TDA		PU + PTFE	≤ 450	-35°C / +120°C	≤ 1 m/s	
TDMA		PU + PTFE	≤ 250	-35°C / +100°C	≤ 1 m/s	
GGDA		NBR, PTFE, BRONZE	≤ 450	-30°C / +100°C	≤ 1 m/s	
FA		POM	-	-55°C / +120°C	≤ 3 m/s	
FAI		POM	-	-55°C / +120°C	≤ 3 m/s	
FI		POM	-	-55°C / +120°C	≤ 3 m/s	
OBVD \ OBVD AX		PU + PTFE	≤ 500	-30°C / +100°C	-	

Fluid compatibility table

Materials guide

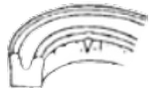
NBR	Nitrile rubber
EPDM	Ethylene-propylene
FKM	Fluoroelastomer (Viton)
CR	Neoprene
FMQ	Fluoro-silicone
POM	Acetal resin
PU	Polyurethane
PTFE	Polytetrafluorethylene

1 - Good **2 - Fair** **3 - Not compatible** **4 - No data**

Vloeistof	NBR	EPDM	FKM	CR	FMQ	POM	PU	PTFE
Acetaldehyde	3	2	3	3	3	4	3	1
Air	1	1	1	1	1	1	1	1
Air with oil mist	1	3	1	2	1	1	1	1
Ammonia	2	1	3	4	4	3	3	1
Benzene - Benzol	3	3	1	3	3	3	3	1
Biodegradable polyglycol oil, HEPG	3	1	1	4	4	1	3	1
Biodegradable synthetic ester oil, HEES	3	3	1	3	3	3	3	1
Biodegradable vegetable oil, HETG	1	3	1	4	4	1	3	1
Brake fluid	3	1	3	3	3	1	3	1
Combustible oil	2	3	1	4	4	2	4	1
Distilled water	2	2	2	4	4	4	3	1
Ethyl alcohol	2	1	2	1	1	3	3	1
Fuel ASTM A	1	3	1	2	1	4	1	1
Fuel ASTM B	3	3	1	3	1	4	3	1
Fuel ASTM C	2	3	1	3	2	4	3	1
Fuel ASTM D	1	3	1	3	1	4	3	1
Fuel oil	1	3	1	2	1	3	2	1
Gasoline	2	3	1	3	1	3	2	1
Glycerin	1	1	1	1	1	1	3	1
Glycols	1	1	1	1	1	1	3	1
Grease, mineral	1	3	1	3	1	1	1	1
Houghton-Safe 1010	3	1	1	4	4	4	4	1
Houghton-Safe 1120	3	1	1	4	4	4	4	1
Houghton-Safe 620	1	2	1	4	4	1	3	1
Kerosene	2	3	1	2	1	1	2	1
Methyl alcohol	1	1	3	1	1	3	3	1
Methyl ethyl ketone	3	1	3	3	3	1	3	1
Oil ASTM #1	1	3	1	1	1	1	1	1
Oil ASTM #2	1	3	1	2	1	4	3	1
Oil ASTM #3	1	3	1	3	1	1	2	1
Oil ASTM #4	2	3	1	3	2	4	3	1
Ozone	3	1	1	3	1	4	1	1
Paraffin	1	3	1	1	4	1	3	1
Petroleum oil	1	3	1	2	2	1	1	1
Salt water	1	1	1	2	1	1	2	1
Soap solution	1	1	1	4	4	1	1	1
Sodium hydroxide	2	1	2	2	2	3	3	1
Steam	3	1	2	3	3	1	2	1
Toluene	3	3	1	3	2	1	3	1
Water (above 50C)	2	1	1	4	4	1	3	1
Water (below 50C)	1	1	2	2	1	1	3	1
Water-glycol emulsion	1	1	2	2	4	1	3	1
Water-oil emulsion	1	3	1	4	4	1	3	1

Faulty seals

Causes and examples of defective seals

		Observation	Possible cause	Possible solution
Hardening		Hardening of the dynamic surface causing cracks and a glossy finish	Heat generated by high speed	Reduce the impact speed or use an alternative seal
		Hardening of the entire seal Loss of elasticity	High fluid temperature Fluid compatibility Fluid deterioration	Lower oil temperature Change fluid Change seal material
Wear		Dynamic plane is worn to a glossy finish	Insufficient lubrication	Check the viscosity of the oil
		Ovoid wear on the dynamic surface	Rod or piston bore not concentric	Adjust the rod/tube to within sealing specifications Replace worn rod or cylinder tube
		Abnormal wear on one side of the dynamic surface	Worn guide or the guide is subjected to excessive side loads	Replace guide Increase guide surface area
Tear ring		Crack or dent on the dynamic surface	Incorrect storage Using the wrong tool	Store flat in a sealed bag/box Tools should not have sharp edges
		Scratches on the dynamic surface	Scratches on the rod or piston bore Foreign material in the fluid	Grind and polish the metal parts Rinse the parts
Swelling		The material is soft and deformed	Liquid absorption Liquid is not compatible Water in the system	Replace sealing material or fluid. Flush the system.
Spoilage		Scratches on the dynamic surface	High liquid temperature. Exposure to ozone or sunlight	Reduce oil temperature Store seals away from sunlight or UV radiation
Grooves		Axial cuts on the dynamic surface	Metal or other foreign material in the system Imploded air bubbles	Flushing the system Bleeding the system

Faulty seals

Causes and examples of defective seals

		Observation	Possible cause	Possible solution
Extrusion		Extruded material on the dynamic side of the heel	Incorrect sizing Worn guide Extremely high pressure	Use a backup ring Replace the guide Use an alternative seal
		Extruded material on the static side of the seal	Uneven support surface Backup ring too small	Support Surface Leveling Correct Backup Ring Size
Fracture		Pieces of material torn at the dynamic surface	Excessive back pressure	Check the pressure relief valves
		Pressure side of seal is burned and broken	High pressure residual air explosion	Check the maximum pressure Bleed the system
		Cracks in the U-section of the seal	Regular high-pressure shocks or surges Low start-up temperature	Use alternative sealing Heat up the system before applying pressure
		Crack or dent on the dynamic surface	Deterioration of the material or fluid	Use an alternative material or sealant Flush the system

Hydraulic Tools

O-ring cone

This cone provides quick O-ring identification. It features 184 of the most popular sizes in 5 thicknesses, ranging from 6.35mm ID to 140mm ID.
The cone is made of high-quality polyurethane and is 450mm high.

Seal Clasper

Seal Clasp 360mm - Seal Clasp 710mm
The seal clasp is designed to resize the PTFE ring of the piston seal. When installing a PTFE piston seal, you need to stretch the outer ring to fit it over the piston. With the seal clasp, you can easily force it back into the groove by tightening the steel band.

O-ring Gauge

O-ring caliper for measuring the inner diameter up to 330 mm.

Pickset 4-piece

This pick set is designed to easily remove all your seals.
The set is made of sturdy material and features comfortable handles.
The pick set includes an awl, hook point, 45° angled point, and 90° angled point.

Digital caliper

Digital caliper with mm/inch conversion and readability to 0.01 mm. Hold function and zero adjustment at any position.
IP67 protection provides complete protection against dust and liquids while maintaining functional characteristics.

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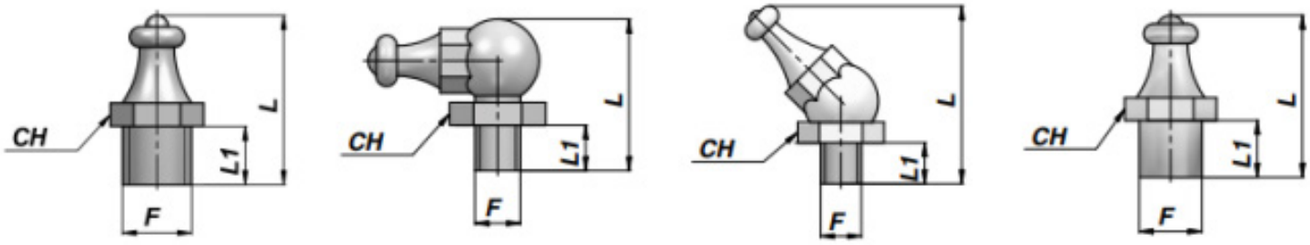
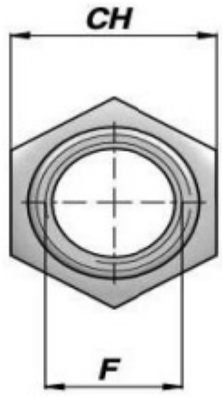
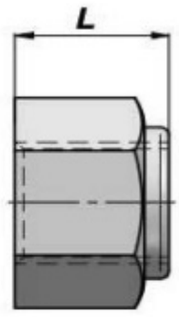


Smeernippel | Grease nipple | Schmiernippel

Art.	Type	F	L1	L	CH	KG x 100
SNP-ø8x6x17 - Right	L	8.0	6.0	17.0	7	0.40
SNP-ø5.5x5x14 - Right	L	5.5	5.0	14.0	9	0.20
SNP-M6x5x13.5 - Right	D	M6x1	5.0	13.5	7	0.20
SNP-M8x1.25x25.5 - Right	D	M8x1.25	6.5	18.0	11	0.45





Borgmoeren | Locknuts | Kontermuttern

Art.		F	L	CH		KG x 100
LKN-M12x1.5-H14		M12x1.5	14	19		2.0
LKN-M14x1.5-H14		M14x1.5	14	22		2.6
LKN-M14x1.5-H16		M14x1.5	16	22		3.0
LKN-M18x1.5-H20		M18x1.5	20	27		5.16
LKN-M20x1.5-H22		M20x1.5	22	30		7.0
LKN-M27x2-H23		M27x2	23	41		13.0
LKN-M30x2-H32		M30x2	32	46		25.8
LKN-M33x2-H26		M33x2	26	50		25.5