



ANY SEAL.  
ANY TIME.

SEALS AND SERVICE PORTFOLIO



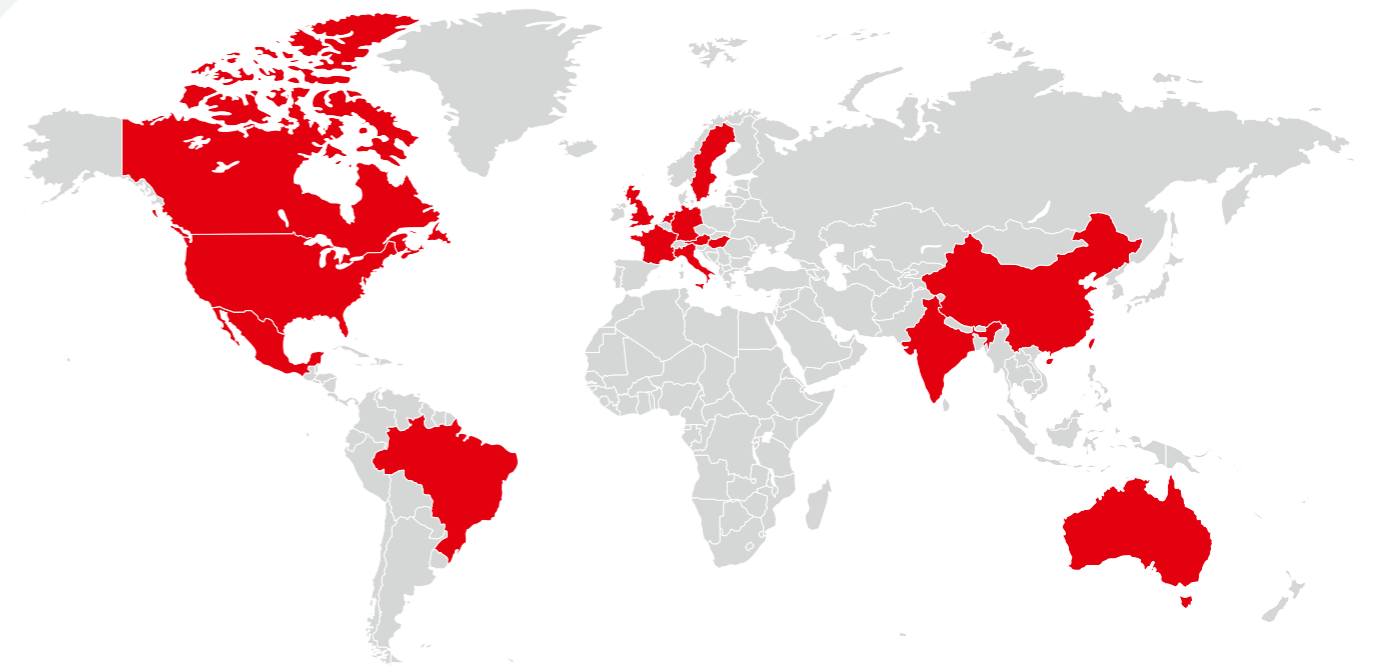
**DICHTOMATIK**  
Any seal. Any time.

a brand of  
 **FREUDENBERG**



# SEALING AND SERVICE COMPETENCY FROM A SINGLE SOURCE

WHEREVER YOU ARE – WE ARE NEARBY



With its 14 locations worldwide, DICHTOMATIK – which was founded in 1978 – is a globally networked company today – in keeping with the slogan “ANY SEAL. ANY TIME.”

Whether in Europe, America, Canada, Asia or Australia, its local warehousing concept, combined with its excellent warehouse management and logistics hub in Hamburg, guarantees the fastest possible delivery.

Since 2004, DICHTOMATIK has been an integral component of the Freudenberg Group. Its goal is to satisfy every customer requirement, whether for premium seals or an enhanced industrial standard.

# INDUSTRY-SPECIFIC AND CUSTOMIZED SERVICE CONCEPTS



## MARKET SEGMENTS

DICHTOMATIK offers numerous types of seals, materials and services for **static and dynamic applications** as well as **fluid seals** in the widest possible range of market segments. This includes the hydraulics industry, the wind turbine industry, agricultural equipment, and equipment and components for general machine-building.



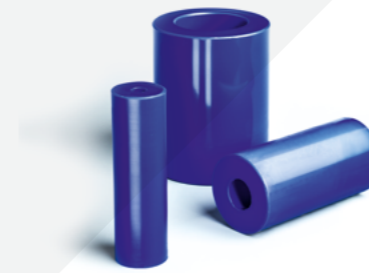
## APPLICATIONS KNOW-HOW

DICHTOMATIK also offers the appropriate **certified materials** for more specialized applications, e.g. in the food industry. In this way, DICHTOMATIK finds the right solution for every type of application. To ensure the reliable functioning of these seals, even in the case of **customized applications**, DICHTOMATIK's team of experts offers **technical services** such as the preparation of drawings, radial force measurements, comprehensive quality and material documentation, as well as material modifications and tests.



## THE ONLINE ORDERING PLATFORM EASY

The online ordering platform EASY facilitates a simple ordering process as well as **price, delivery times and inventory queries** around the clock. In addition to detailed product information, there are installation space and cross-section drawings available for download. With the help of the EASY Business Connector, your orders are transferred directly into your SAP system. In this way, you are always up-to-date on your order. If you still don't have an EASY account, register at this link: [www.dichtomatik.de](http://www.dichtomatik.de)



## DICHTOMATIK XPRESS

Besides standard dimensions in the widest range of materials, DICHTOMATIK offers customer-specific dimensions as well. With the **DICHTOMATIK Xpress** Service, it is possible to deliver turned seal profiles to the location where they are needed within 24 hours. From the replacement parts business to small production runs, **DICHTOMATIK Xpress** offers a high degree of flexibility.



## LOGISTICAL SERVICES AND QUALITY STANDARDS

DICHTOMATIK's 6,500 m<sup>2</sup> warehouse in Hamburg has just one objective: delivering its uniquely high number of warehoused items as quickly as possible to the locations where they are needed. In addition to the roughly **60,000 standard dimensions**, about **15,000 customer-specific seals** are available from stock. DICHTOMATIK is the ideal service partner thanks to its special logistics solutions such as kanban or vendor-managed inventory, quality testing and simplified customs processing due to certifications. DICHTOMATIK is certified in accordance with DIN ISO 9001 and DIN ISO 14001, guaranteeing standardized processes in its quality and environmental management system.



# STATIC SEALS

The values indicated here are maximum values. All of them must not be achieved simultaneously.

## O-RINGS

Profile	Design	Material	Hardness (Shore A)	Color	Temperature (°C)	Special Feature
	O-Ring	EPDM	70	Black	-45 to +130	
	O-Ring	EPDM	70	Black	-50 to +150	Peroxide cross-linking
	O-Ring	FKM	75	Green	-15 to +200	
	O-Ring	FKM	75	Black	-15 to +200	Peroxide cross-linking
	O-Ring	FKM	80	Black	-15 to +200	
	O-Ring	FKM	90	Green	-15 to +200	
	O-Ring FEP	FEP encapsulated FKM		Transparent/Black	-20 to +205	FEP encapsulated FKM O-Ring
	O-Ring	HNBR	70	Black	-30 to +150	
	O-Ring	NBR	70	Black	-30 to +100	Bag in bag delivery is possible
	O-Ring	NBR	80	Black	-30 to +100	
	O-Ring	NBR	90	Black	-30 to +100	
	O-Ring	PTFE		White	-200 to +260	
	O-Ring	VMQ	70	Redbrown	-55 to +200	
	O-Ring FEP	FEP encapsulated VMQ		Transparent/Redbrown	-60 to +205	FEP encapsulated VMQ O-Ring

## ROUND CORD AND ROUND CORD RINGS

Profile	Design	Material	Hardness (Shore A)	Color	Temperature (°C)	Special Feature
	RS	EPDM	70	Black	-50 to +150	Peroxide cross-linking
	RS	FKM	75	Black	-15 to +200	
	RS	NBR	70	Black	-30 to +100	
	RS	VMQ	70	Redbrown	-55 to +200	FDA- and EC 1935/2004-compliant

## X-RINGS



Profile	Design	Material	Hardness (Shore A)	Color	Temperature (°C)	Special Feature
	X-Ring	NBR	70	Black	-30 to +100	
	X-Ring	FKM	70	Black	-15 to +200	

## BACK-UP RINGS




Profile	Design	Material	Hardness	Color	Temperature (°C)	Special Feature
	STU	NBR	90 Shore A	Black	-30 to +100	
	STR END	PTFE	≥ 51 Shore D	White	-200 to +260	
	STR GS	PTFE	≥ 51 Shore D	White	-200 to +260	
	STR END	POM	≥ 82 Shore D	White	-50 to +90	
	STR GS	POM	≥ 82 Shore D	White	-50 to +90	




## BOLT SEALS

Profile	Design	Material	Hardness (Shore A)	Color	Max. pressure in MPa (bar)	Temperature (°C)	Special Feature
	US	FKM	70	Brown	25 (250)	-15 to +200	
	US	NBR	70	Black	25 (250)	-30 to +100	
	US	NBR	70	Black	25 (250)	-30 to +100	Metal ring, rust- and acid-resistant steel 1.4301 (AISI 304)
	USS	FKM	70	Brown	25 (250)	-15 to +200	Additional centering
	USS	FKM	70	Brown	25 (250)	-15 to +200	Additional centering, metal ring, rust- and acid-resistant steel 1.4301 (AISI 304)
	USS	NBR	70	Black	25 (250)	-30 to +100	Additional centering
	USS	NBR	70	Black	25 (250)	-30 to +100	Additional centering, metal ring, rust- and acid-resistant steel 1.4301 (AISI 304)

## PROFILE RINGS IN ACCORDANCE WITH DIN 3869

Profile	Design	Material	Hardness (Shore A)	Color	Max. pressure in MPa (bar)	Temperature (°C)	Special Feature
	PRR	EPDM	80	Violet	60 (600)	-45 to +150	Peroxide cross-linking
	PRR	FKM	80	Green	60 (600)	-20 to +200	Certified DIN EN 549 E1/H3
	PRR	NBR	85	Black	60 (600)	-30 to +100	Certified DIN EN 549 B1/H3

## SAE FLANGE SEALS

Profile	Design	Material	Hardness (Shore A)	Max. pressure in MPa (bar)	Temperature (°C)	Special Feature
	FLAN 89	TPU	95	40 (400)	-30 to +100	


## FORMED PARTS

Formed parts (design FOR) are customer-specific sealing elements. They can be manufactured based on a reference sample, a drawing or a special layout. In this way, they can be adjusted to the precise installation conditions. Elastomers and thermoplastics are available in a variety of grades.



## ASSORTMENT BOXES



These boxes are equipped with various selections of seals, providing the required dimension for every repair needed on-site.

Profile	Design	Material	Hardness (Shore A)	Color
	BOX OR	NBR	70 90	Black
	BOX OR	FKM	80	Black
	BOX OR	EPDM	70	Black
	BOX OR	VMQ	70	Red-brown
	BOX RS	NBR	70	Black
	BOX RS	FKM	75	Black
	BOX XR	NBR	70	Black
	BOX XR	FKM	70	Black

# ROTATING SEALS










The values indicated here are maximum values. All of them must not be achieved simultaneously.

## CASSETTE SEALS

Profile	Design	Material	Hardness (Shore A)	Color	Max. pressure in MPa (bar)
	C	NBR	70	Black	0.05 (0.5)
	C	FKM	80	Brown	0.05 (0.5)






Cassette seals are only available as special designs upon request.

## RADIAL SHAFT SEAL RINGS

Profile	Design	Material	Hardness (Shore A)	Color	Max. speed (m/s)	Max. pressure in MPa (bar)	Temperature (°C)
	WA	FKM	80	Brown	35	0.05 (0.5)	-30 to +200
	WA	NBR	70	Black	12	0.05 (0.5)	-40 to +100
	WAS	FKM	80	Brown	35	0.05 (0.5)	-30 to +200
	WAS	NBR	70	Black	12	0.05 (0.5)	-40 to +100
	WAK	FKM	80	Brown	35	0.05 (0.5)	-30 to +200
	WAK	NBR	70	Black	12	0.05 (0.5)	-40 to +100
	WAG	FKM	80	Brown	35	0.05 (0.5)	-30 to +200
	WAG	NBR	70	Black	12	0.05 (0.5)	-40 to +100
	WAY	FKM	80	Brown	35	1 (10)	-30 to +170
	WAY	NBR	80	Blue	12	1 (10)	-40 to +100

Profile	Design	Material	Hardness (Shore A)	Color	Max. speed (m/s)	Max. pressure in MPa (bar)	Temperature (°C)
	WASY	FKM	80	Brown	35	1 (10)	-30 to +170
	WASY	NBR	80	Blue	12	1 (10)	-40 to +100
	WAD	NBR	70	Black	6	0.05 (0.5)	-40 to +100
	WAO	NBR	70	Black	6		-40 to +100
	WAOK	NBR	70	Green	6		-40 to +100
	WB	NBR	70	Black	12	0.05 (0.5)	-40 to +100
	WBS	NBR	70	Black	12	0.05 (0.5)	-40 to +100
	WBD	NBR	70	Black	6	0.05 (0.5)	-40 to +100
	WBO	NBR	70	Black	6		-40 to +100
	WC	NBR	70	Black	12	0.05 (0.5)	-40 to +100
	WCS	NBR	70	Black	12	0.05 (0.5)	-40 to +100
	WCL	FKM	75	Black	15	0.05 (0.5) Optional 1 (10)	-30 to +200
	WCL	NBR	75	Black	12	0.05 (0.5) Optional 1 (10)	-40 to +100
	WCP 20	PTFE		Gray	40	1 (10)	-90 to +250

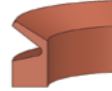



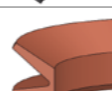



## RADIAL SHAFT SEAL RINGS

Profile	Design	Material	Hardness (Shore A)	Color	Max. speed (m/s)	Max. pressure in MPa (bar)	Temperature (°C)
	WE 5	FKM	80	Black	25	0.05 (0.5)	-20 to +180
	WE 5	NBR	80	Black	20	0.05 (0.5)	-40 to +100
	WE 5	HNBR	80	Black	25	0.05 (0.5)	-40 to +150
	WEPO	PTFE		Black	15	1 (10)	-20 to +200
	WAX	NBR	70	Black	10	0.05 (0.5)	-40 to +100

## AXIAL SEALS

Profile	Design	Material	Hardness (Shore A)	Color	Max. speed (m/s)	Temperature (°C)
	VRM 01	FKM	70	Brown	12	-30 to +180
	VRM 02	FKM	70	Brown	12	-30 to +180
	VRM 01	NBR	70	Black	12	-40 to +100
	VRM 02	NBR	70	Black	12	-40 to +100

## V-RINGS

Profile	Design	Material	Hardness (Shore A)	Color	Temperature (°C)	Special Feature
	VA	FKM	60 70	Brown	-20 to +200	
	VA	NBR	60	Black	-40 to +100	Ozone-resistant
	VS	FKM	60	Brown	-20 to +200	
	VS	NBR	60	Black	-40 to +100	Ozone-resistant
	VL	FKM	60	Brown	-20 to +200	
	VL	NBR	60	Black	-40 to +100	Ozone-resistant
	VE	FKM	60 70	Brown	-20 to +200	
	VE	NBR	60	Black	-40 to +100	Ozone-resistant

### Circumferential speed (m/s)

NBR: ≤ 8; axially secured starting at ≥ 8; radially secured starting at ≥ 12  
 FKM: ≤ 6.5; axially secured starting at ≥ 6.5; radially secured starting at ≥ 10

### END CAPS

Profile	Design	Material	Hardness (Shore A)	Color	Max. pressure in MPa (bar)	Temperature (°C)
	VER 01	FKM	70	Brown	0.05 (0.5)	-20 to +200
	VER 01	NBR	70	Black	0.05 (0.5)	-30 to +100
	VER 02	FKM	70	Brown	0.05 (0.5)	-20 to +200
	VER 02	NBR	70	Black	0.05 (0.5)	-30 to +100
	VER 03	FKM	70	Brown	0.05 (0.5)	-20 to +200
	VER 03	NBR	70	Black	0.05 (0.5)	-30 to +100

### SHAFT SLEEVES

Profile	Design	Material
	WSH	Rust and acid-resistant steel 1.4301 (AISI 304)

# FLUID SEALS

The values indicated here are maximum values. All of them must not be achieved simultaneously.

### PISTON SEALS




Profile	Design	Material	Hardness (Shore A)	Max. speed (m/s)	Max. pressure in MPa (bar)	Temperature (°C)
	N 05	NBR	80	0.5	20 (200)	-30 to +100
	KNA 16	NBR	80	0.5	50 (500)	-30 to +100
	KK 03	NBR	80	0.5	40 (400)	-30 to +100
	KNA 23	NBR	90	0.5	16 (160)	-30 to +100
	N 21	NBR	90	0.5	16 (160)	-30 to +100
	KK 22	NBR F*	90	0.5	40 (400)	-30 to +100
	KDS 01	NBR F*	90	0.5	40 (400)	-30 to +100
	KNA 28	TPU	95	0.5	40 (400)	-40 to +100
	N 25	TPU	95	0.5	30 (300)	-40 to +100
	N 36	TPU	95	0.5	40 (400)	-40 to +100
	K 70	TPU	95	0.5	25 (250)	-30 to +100
	K 84	TPU	98	0.5	40 (400)	-30 to +100
	KPOR 31	PTFE-Bronze		15	40 (400)	-30 to +100
	KPOR 131	PTFE-Bronze		15	40 (400)	-30 to +100
	KPOR 30	PTFE-Bronze		15	40 (400)	-30 to +100

\* F: fabric (fabric-reinforced material)














## PISTON SEALS



Profile	Design	Material	Hardness (Shore A)	Max. speed (m/s)	Max. pressure in MPa (bar)	Temperature (°C)
	KPOR 130	PTFE-Bronze		15	40 (400)	-30 to +100
	KK 71	PTFE-Bronze		1.5	40 (400)	-30 to +100
	KNA 44	PTFE carbon + graphite		15	35 (350)	-150 to +250

## ROD SEALS

Profile	Design	Material	Hardness (Shore A)	Max. speed (m/s)	Max. pressure in MPa (bar)	Temperature (°C)
	N 21	NBR	90	0.5	16 (160)	-30 to +100
	SNI 24	NBR	90	0.5	16 (160)	-30 to +100
	N 05	NBR	80	0.5	20 (200)	-30 to +100
	SNI 07	NBR	80	0.5	40 (400)	-30 to +100
	SDS 01 3/2	NBR/NBR F*	90	0.5	40 (400)	-30 to +100
	SDS 01 1/0	NBR F*	90	0.5	40 (400)	-30 to +100
	SDR 01	NBR/NBR F*	90			-30 to +100
	N 25	TPU	95	0.5	30 (300)	-40 to +100
	SNI 30	TPU	95	0.5	40 (400)	-40 to +100
	SNI 39	TPU	95	0.5	40 (400)	-40 to +100

Profile	Design	Material	Hardness (Shore A)	Max. speed (m/s)	Max. pressure in MPa (bar)	Temperature (°C)
	N 36	TPU	95	0.5	40 (400)	-40 to +100
	S 72	TPU	95	0.5	40 (400)	-30 to +100
	SNI 35	TPU	95	0.5	40 (400)	-40 to +100
	SPOR 30	PTFE-Bronze		15	40 (400)	-30 to +100
	SPOR 130	PTFE-Bronze		15	40 (400)	-30 to +100
	SPOR 131	PTFE-Bronze		15	40 (400)	-30 to +100
	SPOR 31	PTFE-Bronze		15	40 (400)	-30 to +100
	SPOR 06	PTFE-Bronze		2.0	16 (160)	-30 to +100
	SNI 43	PTFE carbon + graphite		15	35 (350)	-150 to +250

## RADIAL SEALS








Profile	Design	Material	Peripheral speed (m/s)	Max. pressure in MPa (bar)	Temperature (°C)
	RPORI 32	PTFE carbon + graphite	≤ 5	30 (300)	-30 to +100
	RPORA 32	PTFE carbon + graphite	≤ 5	30 (300)	-30 to +100

\* F: fabric (fabric-reinforced material)

### WIPERS

Profile	Design	Material	Hardness (Shore A)	Max. speed (m/s)	Temperature (°C)
	AE 40	NBR	90	1	-30 to +110
	AE 41	NBR	90	1	-30 to +110
	AM 43	NBR	90	1	-30 to +110
	AM 45	NBR	90	1	-30 to +110
	AD 51	NBR	90	1	-30 to +110
	AE 42	TPU	90	2	-40 to +100
	AE 47	TPU	90	2	-40 to +100
	AM 44	TPU	95	2	-40 to +100
	AM 54	TPU	95	1	-40 to +100
	AD 48	TPU	95	1	-40 to +100
	ADM 55	TPU	95	1	-40 to +100
	AD 60	PTFE-Bronze		15	-30 to +100
	AD 61	PTFE-Bronze		15	-30 to +100
	AE 80	PTFE-Bronze		15	-30 to +100

### GUIDE ELEMENTS

Profile	Design	Material	Slide speed (m/s)	Contact pressure (N/mm²)	Temperature (°C)	Delivered condition	Surface
	GS 01	PTFE, bronze-filled	≤ 15	Static: ≤ 25 Dynamic: ≤ 15	-60 to +200	Roll	Structured
	GS 10	PTFE, bronze-filled	≤ 15	Static: ≤ 25 Dynamic: ≤ 15	-60 to +200	Roll	Smooth
	FRK 01	PTFE, bronze-filled	≤ 15	Static: ≤ 25 Dynamic: ≤ 15	-60 to +200	Strip, 30° cut	Structured
	FRS 01	PTFE, bronze-filled	≤ 15	Static: ≤ 25 Dynamic: ≤ 15	-60 to +200	Strip, 30° cut	Structured
	GS 05	Hard fabric with PTFE	≤ 1	Static: ≤ 350 Dynamic: ≤ 100	-50 to +120	Roll	Smooth
	FRK 05	Hard fabric with PTFE	≤ 1	Static: ≤ 350 Dynamic: ≤ 100	-50 to +120	Ring, 45° bevel cut	Smooth
	FRS 05	Hard fabric with PTFE	≤ 1	Static: ≤ 350 Dynamic: ≤ 100	-50 to +120	Ring, 45° bevel cut	Smooth



# INSTALLATION AND DISMANTLING TOOLS

Installation tools ease the assembly and dismantling of seal profiles. They can be found on the online ordering platform EASY in the accessories (ZUB) section.

Art. No. 67189703



**Set of dismantling tools for O-rings and u-rings, stable design, 8-part, case contains a complete set.**

**Application areas:** The dismantling tools are suited for use with nearly any dimension.

Art. No. 67189704



**Set of installation tools for u-rings, 5-part, incl. a holding block as a clamping aid for affixing the pliers, case contains a complete set.**

**Application areas:** The installation pliers can be used for u-rings with a diameter of up to 165 mm.

**Installation pliers S:** < 30 mm  
**Installation pliers M:** 30–50 mm  
**Installation pliers L:** 50–70 mm  
**Installation pliers XL:** 70–165 mm

Art. No. 49406848



**Calibration pliers for PTFE seals**

**Application areas:** Calibration pliers can be used within the range of 50–360 mm.

Art. No. 67189705



**Dismantling tool for shaft seal rings, u-rings and end caps**

**Application areas:** These dismantling tools are suited for use with nearly any dimension.

Art. No. 67195157



**PTFE cutter for PTFE guide band**

**Application areas:** The cutting pliers cut the PTFE guide band at a 45° angle. The cleanly cut edges require no additional deburring. The maximum width of the PTFE guide band is 25 mm.

**Art. No. 195159:**  
**Replacement blades for PTFE cutter (10 units)**

# CERTIFIED MATERIALS

LAST UPDATED: 02.12.2017

## GAS DEVICES AND SYSTEMS IN DOMESTIC INSTALLATIONS OR IN HOME APPLIANCES

Approval	Certifying authority	Temperature range	Compound
DIN EN 549	DVGW	B1/H3 (0 up to +80 °C)	NB 90 18 03
DIN EN 549	DVGW	B1/H3 (0 up to +80 °C)	NB 70 28 22
DIN EN 549	DVGW	B2/H3 (-20 up to +80 °C)	NB 70 28 07
DIN EN 549	DVGW	B2/H3 (-20 up to +80 °C)	NB 70 27 17
DIN EN 549	DVGW	C2/H3 (-20 up to +100 °C)	HN 70 27 04
DIN EN 549	DVGW	C2/H3 (-20 up to +100 °C)	HN 70 18 10
DIN EN 549	DVGW	D2/H3 (-20 up to +125 °C)	HN 70 78 01
DIN EN 549	DVGW	E1/H3 (0 up to +150 °C)	FP 80 27 01
DIN EN 549	DVGW	E1/H3 (0 up to +150 °C)	FP 80 18 01
DIN EN 549	DVGW	E1/H3 (0 up to +150 °C)	FP 80 18 14

## GAS SUPPLY LINES AND GAS PIPELINES

Approval	Certifying authority	Temperature range	Compound
DIN EN 682	DVGW	GBL (-15 up to +50 °C)	NB 70 27 32

## DRINKING WATER

Approval	Certifying authority	Temperature range	Compound
DVGW type examination	DVGW	WA/WB	EP 70 39 01
CLP	eurofins		EP 70 39 01
ACS	eurofins		EP 70 39 01
BS6920	WRAS	Up to 85 °C	EP 70 39 01

## WATER SUPPLY AND DRAINAGE

Approval	Certifying authority	Operating conditions	Compound
DVGW type examination	DVGW	WA/WB	EP 70 39 01

## FOOD CONTACT AND PHARMACEUTICAL INDUSTRY

Approval	Certifying authority	Specification	Compound
FDA 21 CFR	CERISIE	§ 177.2600	EP 70 27 03
FDA 21 CFR	SGS Fresenius	§ 177.2600	SI 70 28 03
FDA 21 CFR	SGS Fresenius	§ 177.2600	SI 70 18 07
FDA 21 CFR	SGS Fresenius	§ 177.2600	SI 70 50 03
FDA 21 CFR	SGS Fresenius	§ 177.2600	SI 70 27 14
FDA 21 CFR	SGS Fresenius	§ 177.2600	EP 70 39 01
FDA 21 CFR	SGS Fresenius	§ 177.2600	SI 60 41 01
FDA 21 CFR	SGS Fresenius	§ 177.2600	FP 75 94 12
BfR (EG 1935/2004)	SGS Fresenius	Recommendation XV	SI 70 18 07
BfR (EG 1935/2004)	SGS Fresenius	Recommendation XV	SI 70 50 03
BfR (EG 1935/2004)	SGS Fresenius	Recommendation XV	SI 70 27 14
LFGB (EG 1935/2004)	SGS Fresenius	Recommendation XXI	EP 70 39 01
LFGB (EG 1935/2004)	SGS Fresenius	Recommendation XV	SI 60 41 01
LFGB (EG 1935/2004)	SGS Fresenius	Recommendation XXI	FP 75 94 12
CIP-/SIP-ability	ECOLAB		EP 70 39 01
WFI-ability	ECOLAB		EP 70 39 01
USP Class VI, 121 °C	BSL	Chapter 88 (in vivo)	EP 70 39 01
USP 32	BSL	Chapter 87 (in vitro)	EP 70 39 01
3-A Sanitary Standard	CERISIE	Class I	FP 75 94 12
3-A Sanitary Standard	CERISIE	Class II	EP 70 39 01
CIP-/SIP-ability	ECOLAB		FP 75 94 12
WFI-ability	ECOLAB		FP 75 94 12

## OXYGEN, GASEOUS

Approval	Certifying authority	Application	Compound
DIN EN 1797/ISO 21010	BAM	100 °C/25 bar > 100 up to 150 °C/20 bar	FP 75 94 11

Elastomer	Hardness (Shore A)	Color
NBR	90	Black
NBR	70	Black
NBR	70	Black
NBR	70	Black
HNBR	70	Black
HNBR	70	Black
HNBR	70	Yellow
FKM	80	Black
FKM	80	Black
FKM	80	Green

Elastomer	Hardness (Shore A)	Color
NBR	70	Black

Elastomer	Hardness (Shore A)	Color
EPDM perox.	70	Black
EPDM perox.	70	Black
EPDM perox.	70	Black
EPDM perox.	70	Black

Elastomer	Hardness (Shore A)	Color
EPDM perox.	70	Black

Elastomer	Hardness (Shore A)	Color
EPDM perox.	70	Black
VMQ	70	Red-brown
VMQ	70	Red-brown
VMQ	70	Red-brown
FKM perox.	75	Black
VMQ	60	Red-brown
VMQ	70	Red-brown
EPDM perox.	70	Black
VMQ	70	Red-brown
VMQ	70	Red-brown
VMQ	70	Red-brown
EPDM perox.	70	Black
VMQ	60	Red-brown
FKM perox.	75	Black
EPDM perox.	70	Black
EPDM perox.	70	Black
EPDM perox.	70	Black
FKM perox.	75	Black
EPDM perox.	70	Black
FKM perox.	75	Black
FKM perox.	75	Black

Elastomer	Hardness (Shore A)	Color
FKM	75	Green

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