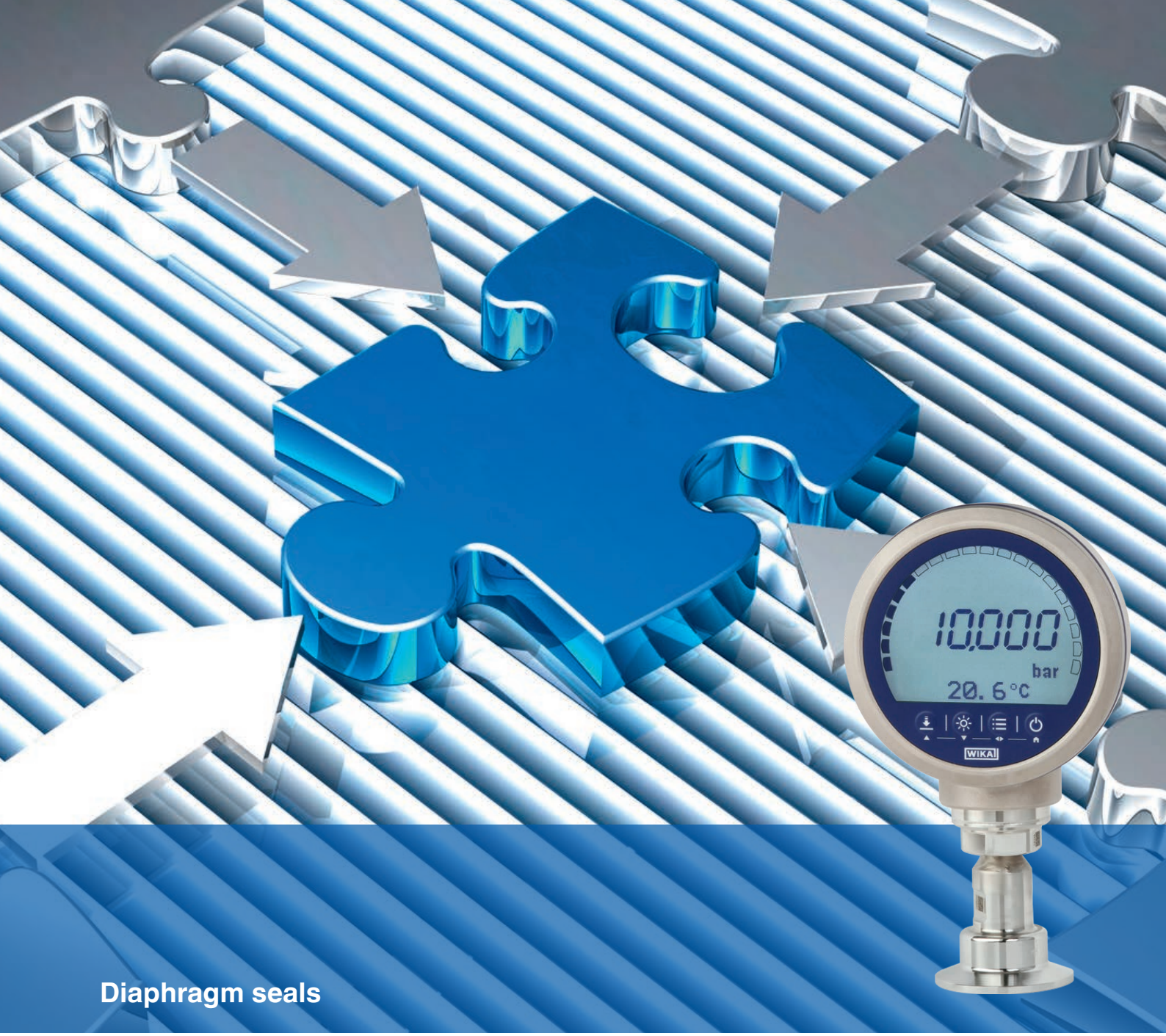


Diaphragm seals

Diaphragm seals – combinations and accessories

WIKA

Smart in sensing

Alexander Wiegand,
Chairman and CEO, WIKA

About us

As a family-run business acting globally, with 10,200 highly qualified employees, the WIKA group of companies is a worldwide leader in pressure and temperature measurement. The company also sets the standard in the measurement of level, force and flow, and in calibration technology.

Founded in 1946, WIKA is today a strong and reliable partner for all the requirements of industrial measurement technology, thanks to a broad portfolio of high-precision instruments and comprehensive services.

With manufacturing locations around the globe, WIKA ensures flexibility and the highest delivery performance. Every year, over 50 million quality products, both standard and customer-specific solutions, are delivered in batches of 1 to over 10,000 units.

With numerous wholly owned subsidiaries and partners, WIKA competently and reliably supports its customers worldwide. Our experienced engineers and sales experts are your competent and dependable contacts locally.

Contents

Diaphragm seals

By using diaphragm seals, pressure measuring instruments can be adapted to even the most difficult of conditions within process industries. A diaphragm made of the appropriate material separates the medium from the measuring instrument.

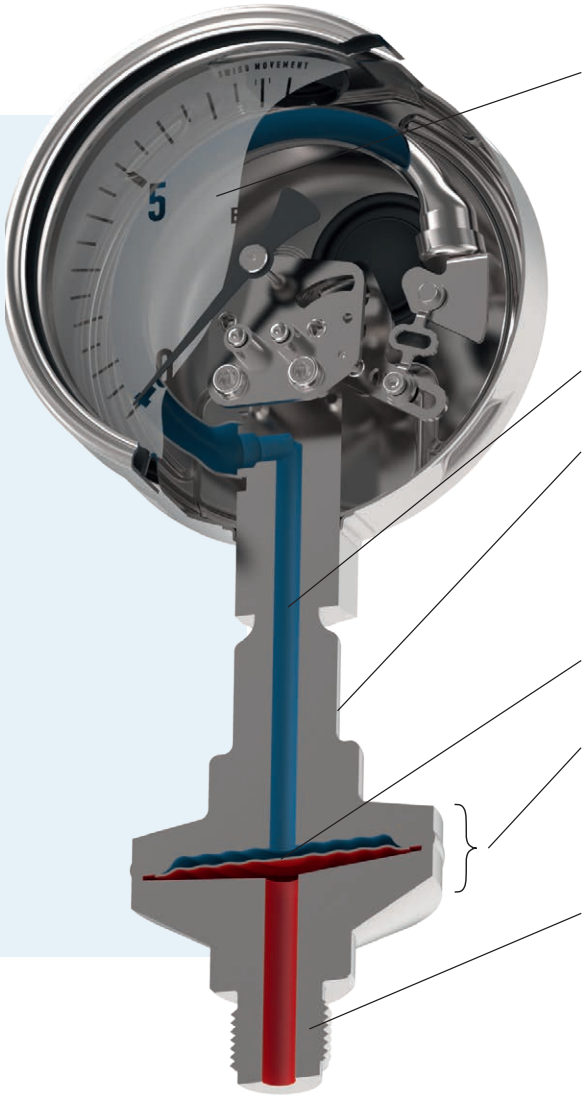
Operating principle

Diaphragm seals are mounted to existing connections, which are welded to a pipeline, a process reactor or a tank.

The internal space between the diaphragm and the pressure measuring instrument is completely filled with a system fill fluid.

The process pressure is transmitted by the elastic diaphragm into the fluid and from there to the measuring instrument. A diaphragm seal and its components are perfectly matched to each other to ensure a reliable measurement.

Diaphragm seals offer the advantage that they can be easily dismounted, e.g. for cleaning or calibration purposes.



Pressure measuring instrument
- Pressure gauge
- Process transmitter
- Pressure switch

System fill fluid

Mounting type
- Direct mounting
- Capillary
- Heat sink

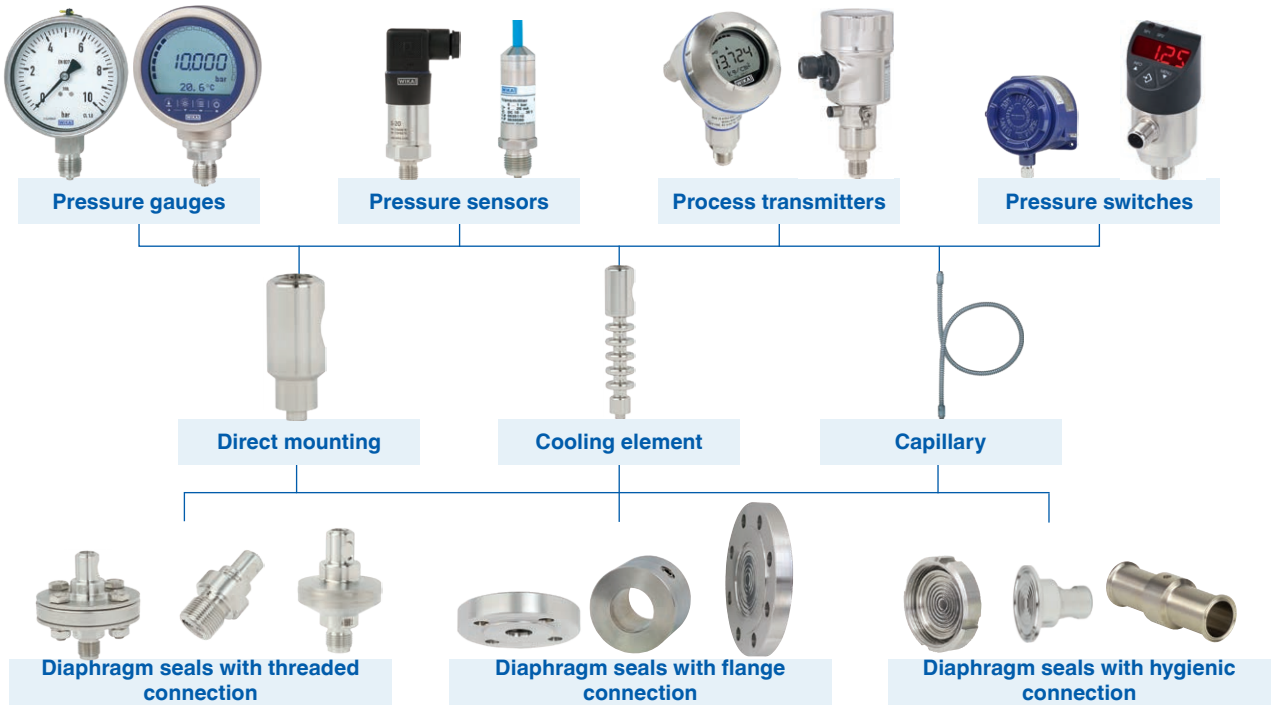
Diaphragm

Diaphragm seal
- Upper body of diaphragm seal
- Lower body of diaphragm seal

Process connection
- Threaded connection
- Flange connection
- Hygienic connection

Combinations with measuring instruments

WIKA diaphragm seals can be connected to almost all pressure gauges, process transmitters, pressure switches or pressure sensors. Mounting may be made via a direct connection, a cooling element or a capillary.
The combined systems can withstand a pressure of 10 mbar up to 3,600 bar at extreme temperatures (-130 … +400 °C) and with a wide variety of media, thus enabling accurate pressure measurements under extreme conditions.
The optimal diaphragm seal designs, materials, system fill fluids and accessories are available for each application. The configuration of the combination of pressure measuring instruments and diaphragm seals depends, among other things, on the application conditions in which the diaphragm seal system must work.
For the diaphragm seals, test certificates and approvals for special applications can be supplied.



The realisation of your individual solution

Create your perfect diaphragm seal solution together with us. From the wide variety of realisable combinations, our technology experts will find a proven solution for your application. As required, we will adapt our systems to your individual application.

Talk to us – we are happy to provide you with advice!

System fill fluids

Designation	Identification number	Solidification point	Boiling/ degradation point	Density at 25 °C	Kin. Viscosity at 25 °C	Comments
	KN	°C	°C [°F]	°C [°F]	cSt	
Silicone oil	2	-45	+300	0.96	54.5	Universal application
Glycerine	7	-35	+240	1.26	759.6	FDA 21 CFR 182.1320
Silicone oil	17	-90	+200	0.92	4.4	For low temperatures
Halocarbon	21	-60	+175	1.89	10.6	Oxygen [1] and chlorine
Methylcyclopentane	30	-130	+60	0.74	0.7	For very low temperatures
High-temperature silicone oil	32	-25	+400	1.06	47.1	For high temperatures
Neobee® M-20	59	-35	+260	0.92	10.0	FDA 21 CFR 172.856, 21 CFR 174.5
DI water	64	+4	+85	1.00	0.9	For ultrapure media
Silicone oil	68	-75	+250	0.93	10.3	
DI water/propanol mixture	75	-30	+60	0.92	3.6	For ultrapure media
Medicinal white mineral oil	92	-15	+260	0.85	45.3	FDA 21 CFR 172.878, 21 CFR 178.3620(a); USP, EP, JP

Other system fill fluids on request
Note:
- The stated lower temperature limit is a purely physical characteristic of the system fill fluid.The resulting response time has to be calculated and evaluated separately.
- The upper temperature limit for a diaphragm seal system is further restricted by the operating pressure and the diaphragm.To determine the upper temperature limit for the individual diaphragm seal system, a calculation is required.

[1] For oxygen applications the following values per BAM test (Federal Institute for Materials Research and Testing) apply:

Maximum temperature	Maximum oxygen pressure
to 60 °C	50 bar
> 60 °C to 100 °C	30 bar
> 100 °C to 175 °C	25 bar

Materials, coatings

Special materials

The diaphragm provides for the separation from the medium. The pressure is transmitted to the measuring instrument via the system fill fluid which is inside the diaphragm seal system.

Materials	Unified numbering system (UNS)
Tantalum	R05200
Hastelloy C276 2.4819	N10276
Hastelloy C22 2.4602	N06022
Inconel 600 2.4816	N06600
Incoloy 825 2.4858	N08825
Inconel 625 2.4856	N06625
Monel 400 2.4360	N04400
Nickel 200 (2.4066)	N02200
Nickel 201 (2.4068)	N02201
Titanium 3.7035 (class 2)	R50400
Titanium 3.7235 (class 7)	R52400
Stainless steel 1.4404 (316L)	S31603
Stainless steel 1.4435 (316L)	S31603
Stainless steel 1.4539 (904L)	N08904
Stainless steel 1.4541 (321)	S32100
Stainless steel 1.4571 (316Ti)	S31635
Stainless steel 1.4304 (304L)	S30403
Stainless steel 1.4466 (urea grade)	S31050
Stainless steel 1.4542 (630)	S17400
Duplex 2205 1.4462	S31803
Superduplex 1.4410	S32750
Zirconium	R58120
Coatings	
Stainless steel with ECTFE	
Stainless steel with PFA (FDA; 21 CFR 177.1550 and 21 CFR 177.2440)	
Stainless steel with antistatic PFA (suitable for Ex applications)	
Stainless steel with gold plating, various coating thicknesses: ~6, 25, 40 µm	
Stainless steel with gold-rhodium (gold ~4 µm, rhodium ~0.1 … ~0.2 µm)	
Stainless steel with Wikaramic®	

Other materials and coatings on request

The standard material for diaphragm seals is stainless steel 316L. For the wetted parts, a wide range of steels, special materials and coatings are available for almost all diaphragm seal designs.

With flange connection

The combinations of diaphragm seals with flange connection can be used for processes with aggressive, adhesive, corrosive, highly viscous, environmentally hazardous or toxic media. With its connection dimensions, the flange-type diaphragm seal is suitable for all currently used standard flanges.

Another modification of this model is the diaphragm seal with extended diaphragm, which, among other things, is used at thick and/or insulated process lines or vessel walls.

Cell-type diaphragm seals are used with a blind flange at the process.

Nominal sizes in DN 15 … 125 and DN ½" … 5".
Standards in EN, ASME (former ANSI), GOST, API and JIS

Internal diaphragm

990.12

Threaded design

Application	General applications in the process industry; for small flange connections (≤ DN 25/1") and pressures ≥ 40 bar
PN	10 … 250 bar (class 150 … 1500)
Data sheet	DS 99.31

990.16

High-pressure version

Application	Process industry; for small flange connections (≤ DN 25/1") and pressures ≥ 400 bar
PN	400 (class 2500)
Data sheet	DS 99.08

990.45

High-temperature version

Application	■ Process industry with particularly high medium temperatures from 360 °C [680 °F] to a maximum of 450 °C [842 °F]
PN	40 bar (class 400 ... 600)
Data sheet	DS 99.45

990.26

Internal diaphragm

Application	Process industry; for small flange connections (≤ DN 25/1")
PN	10 … 40 bar (class 150 … 300)
Data sheet	DS 99.26

990.41

Large working volume, threaded design

Application	For mounting to pressure measuring instruments for differential pressure or for low pressures.
PN	10 … 100 bar (class 150 … 300)
Data sheet	DS 99.32

Flush diaphragm

990.28

Cell-type

Application	Process and petrochemical industries with high measuring requirements
PN	10 … 100 (400) bar (class 150 … 2500)
Data sheet	DS 99.28

990.29

Flange-type with extended diaphragm

Application	Process and petrochemical industries, particularly for thick or insulated vessel walls
PN	10 … 100 (400) bar (class 150 … 2500)
Data sheet	DS 99.29

990.35

Cell-type with extended diaphragm

Application	Process and petrochemical industries, particularly for thick or insulated vessel walls
PN	10 … 100 (400) bar (class 150 … 600)
Data sheet	DS 99.30

990.27

Flush diaphragm

Application	Process and petrochemical industries with high measuring requirements
PN	10 … 250 (400) bar (class 150 … 2500)
Data sheet	DS 99.27

990.23

With rotatable retainer flange

Application	For use in the pulp and paper industry
PN	40 bar (class 400 / 600)
Data sheet	DS 99.34

With flange connection

By using welding flanges for the connection to the process, a compact assembly can be realised at the measuring point with block flanges or saddle flanges. In addition, stress from vibration, potential leakage points and installation and maintenance costs are reduced.
The process connection is realised directly at the flange.

The measuring instrument is in a vertical position.
Depending on the pressure rating, the fixing is made using a different number of screws.

Flush diaphragm for installation via block or saddle flange

990.15

Block or saddle flange

Application	For connection with block or saddle flange in the chemical engineering and petrochemical industries
PN	100 or 250 bar
Data sheet	DS 99.35

910.19, 910.23

Block flange for single- and double-jacket pipes

Process connection	■ For welding into the product pipeline ■ DN 15 … 150
Perm. temperature	Max. 250 °C
PN	910.19: 195 bar 910.23: 240 bar
Data sheet	AC 91.01

910.20

Saddle flange

Process connection	■ For welding onto the product pipeline ■ DN 65 … 150 ■ DN 2 ½" … 6"
Perm. temperature	Max. 300 °C
Data sheet	AC 91.01

In-line diaphragm seals

981.10

Cell-type

Application	For direct, permanent installation in pipelines; for flowing media; for measuring points free of dead space
PN max.	400 bar (class 150 … 2500)
Data sheet	DS 98.28

981.27

Flange-type

Application	For direct, permanent installation in pipelines; for flowing media; for measuring points free of dead space
PN max.	16 or 40 bar (class 150 ... 300)
Data sheet	DS 98.27

With threaded connection

The combinations of diaphragm seals with threaded connection can be used for processes with aggressive, corrosive, environmentally hazardous or toxic media.
The diaphragm seals are available with female or male thread in their basic design.

The wide variety of available process connections enables many different adaptations without any problems.

Process connections with female or male threads in G ¼ … 1 ½ and ¼ … 1½ NPT.

990.10

Threaded design

Application	General applications in the process industry
PN	25, 100 or 250 bar
Data sheet	DS 99.01

990.31

Plastic body, threaded design

Application	Chemical engineering with plastic pipework, electroplating; particularly for wastewater and agricultural fertilisers
PN max.	10 bar
Data sheet	DS 99.02

990.36

Small diaphragm seal with flush diaphragm

Application	Particularly for highly viscous and crystallising media
PN max.	600 bar
Data sheet	DS 99.03

990.34

Welded design

Application	Machine-building, plant-construction and process-industry applications with high requirements
PN	160, 400, 600 or 1,000 bar
Data sheet	DS 99.04

990.40

Large working volume, threaded design

Application	For mounting to pressure measuring instruments for differential pressure or for low pressures.
PN max.	40 bar
Data sheet	DS 99.06

With hygienic connection

These combinations of diaphragm seals with pressure measuring instruments in hygienic design can be used for processes with gases, compressed air or vapour and also with liquid, pasty, powdery and crystallising media.
The diaphragm seals resist the temperatures that occur and meet the requirements for sterile connections.
SIP and CIP criteria, which are an essential requirement for sanitary applications, are met by using WIKA diaphragm seals.

These acronyms stand for the sterilisation and cleaning of the wetted parts in the process.
The combination of pressure measuring instruments with flush diaphragm seals or in-line diaphragm seals meets the stringent demands made on hygienic instrumentation and is suitable for even the most difficult measuring requirements.

990.22, 990.52, 990.53

Clamp connection

Process connection	■ Clamp connection per ASME BPE ■ Clamp connection per DIN 32676 ■ Clamp connection per ISO 2852
PN max.	■ 40 bar (DN 20 … 50) ■ 25 bar (from DN 65)
Data sheet	DS 99.41

990.17

DRD connection

Process connection	DRD connection
PN max.	25 bar
Data sheet	DS 99.39

990.51

Aseptic connection per DIN 11864

Process connection	■ DIN 11864-1 threaded connection ■ DIN 11864-2 flange ■ DIN 11864-3 clamp connection
PN	16 … 40 bar
Data sheet	DS 99.51

Threaded connections

990.18

Milk thread fitting per DIN 11851

Process connection	Grooved union nut/threaded coupling
PN max.	40 or 25 bar
Data sheet	DS 99.40

990.19

Threaded connection SMS standard

Process connection	Grooved union nut/threaded coupling
PN max.	40 or 25 bar
Data sheet	DS 99.40

990.20

Threaded connection IDF standard

Process connection	Thread with grooved union nut
PN max.	40 or 25 bar
Data sheet	DS 99.40

Homogenisers

990.21

Threaded connection APV-RJT standard

Process connection	Thread with grooved union nut
PN max.	40 or 25 bar
Data sheet	DS 99.40

990.30

For homogenisers

Application	For homogeniser machines
PN max.	■ 600 bar ■ 1,000 bar ■ 1,600 bar
Data sheet	DS 99.33

The model 990.30 mechanical pressure measuring instrument has been specifically developed for homogenising processes, where there are extremely dynamic pressure loads.

Complex structural features allow pressures of up to 2,500 bar and ensure a long service life.

With hygienic connection

Manufacturer-specific connections

990.60

NEUMO BioControl®

Process connection	For installation into the NEUMO BioControl® system
PN max.	■ 16 bar (size 50 … 80) ■ 70 bar (size 25)
Data sheet	DS 99.55

910.60

NEUMO BioControl® housing

Process connection	NEUMO BioControl®
PN max.	16 bar
Data sheet	AC 09.14

990.24

VARINLINE® connection

Process connection	For installation into the VARINLINE® access unit or connecting flange
PN max.	25 bar
Data sheet	DS 99.49

990.50

NEUMO BioConnect® connection

Process connection	NEUMO BioConnect® thread or flange
PN max.	■ 16 bar (thread) ■ 70 bar (flange)
Data sheet	DS 99.50

The in-line diaphragm seal is perfectly suited for use with flowing media. With the seal being completely integrated into the process line, measurements do not cause any disturbing turbulences, corners, dead spaces or other obstructions in the flow direction. The in-line diaphragm seal is clamped directly into the pipeline.

With in-line diaphragm seals with their perfectly circular cylindrical form, the medium flows through unhindered and effects the self-cleaning of the measuring chamber. Different nominal widths allow the in-line diaphragm seals to be adapted to any pipeline cross-section.

In-line diaphragm seals

981.18

Milk thread fitting DIN 11851

Process connection	Thread
PN max.	■ 40 bar (DN 20 … 40) ■ 25 bar (from DN 50)
Data sheet	DS 98.40

981.22

TRI-CLAMP®

Process connection	TRI-CLAMP®, clamp DIN 32676, ISO 2852
PN max.	■ 40 bar (DN 20 … 40) ■ 25 bar (from DN 50)
Data sheet	DS 98.52

981.50

NEUMO BioConnect®

Process connection	NEUMO BioConnect® thread or flange
PN max.	■ 16 bar (thread) ■ 70 bar (flange)
Data sheet	DS 98.50

981.51

Aseptic connection

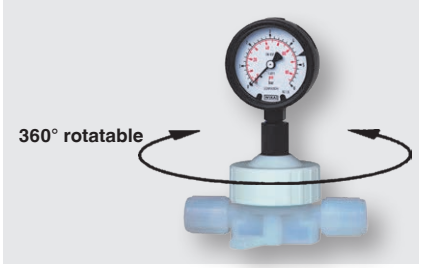
Process connection	■ DIN 11864-1 threaded connection ■ DIN 11864-2 flange ■ DIN 11864-3 clamp connection
PN max.	16 … 40 bar
Data sheet	DS 98.51

HYDRA-line diaphragm seal systems

This product family has been developed in co-operation with well-known customers in the semiconductor industry. The complete product concept has been adapted to the special requirements of the process equipment and UHP chemicals distribution system sectors. The patented HYDRA double-diaphragm system enables a safe and reliable separation of the pressure sensor from the process medium.

Simultaneously diffusing process media such as HF or HCl vapours are given off to the environment. Any falsification of the measuring result or the destruction of the sensor element is avoided.
All wetted parts are made of PFA or PTFE UHP grade.

HYDRA-gauge



Process connection	■ Dead-end ■ In-line
Measuring range	0 … 2.5 to 0 … 6 bar
Data sheet	SP 99.20

HYDRA-sensor

Process connection	■ Dead-end ■ In-line
Measuring range	0 … 2.5 to 0 … 6 bar
Data sheet	SP 99.21

Diaphragm monitoring

WIKA's patented double-diaphragm design is the solution for critical processes where neither the medium should find its way into the environment, nor should the system fill fluid find its way into the product.

In the event of a diaphragm rupture, a second diaphragm in the diaphragm seal system ensures the reliable separation of the environment and the process. The measuring task can still be performed. Time to act – without any risk for the process.

DMS27

Diaphragm monitoring system with flange connection

PATENTED

US 2018180505,
DE 102016015447,
CN 108240885

Process connection	Flange connection
Application	Process industry, with high measuring requirements
Material	Hastelloy
Data sheet	DS 95.23

DMS34

Diaphragm monitoring system with threaded connection

PATENTED

US 2018180505,
DE 102016015447,
CN 108240885

Process connection	Threaded connection
Application	Process industry
Material	Monel
Data sheet	DS 95.18

DMS-FP

Diaphragm monitoring system with hygienic connection

PATENTED

US 2018180505,
DE 102016015447,
CN 108240885

Process connection	Clamp connection per DIN 32676
Application	Sanitary applications
Material	Stainless steel 1.4435 (316L), UNS S31603
Data sheet	DS 95.20

Process connections

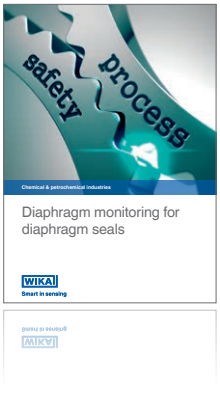
DMSU21SA

Diaphragm monitoring system with HART® protocol

PATENTED

US 10794787,
NL 2019251

Process connection	■ Clamp connection per DIN 32676 or ISO 2852 ■ Aseptic threaded pipe connection per DIN 11864-1 ■ Aseptic flange connection per DIN 11864-2 ■ Aseptic clamp connection per DIN 11864-3 ■ Ingold connection with union nut ■ VARIVENT®
Application	Pharmaceutical industry and aseptic food processing
Material	■ Stainless steel 1.4435 (316L) UNS S1603
Data sheet	DS 95.11



Extensive information can be found in the flyer “Diaphragm monitoring for diaphragm seals” at www.wika.de.

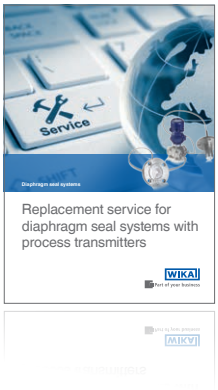
VARIVENT® is a registered trademark of the company GEA

Service for diaphragm seal systems

Process transmitter model DPT-10 with two diaphragm seals

Has your system failed unexpectedly and a smooth process flow is no longer possible?
Send us your instrument and we will restore its functionality in line with your wishes.
Through our globally established service centres we can support you at any location and guarantee short delivery times.

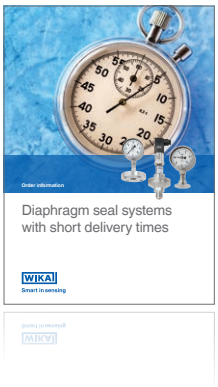
Extensive information can be found in our flyer “Replacement service for diaphragm seal systems with process transmitters” at www.wika.de.



Order catalogue “Diaphragm seal systems with short delivery times”

These combinations of diaphragm seals with pressure measuring instrumentsparticularly stand out for their very fast availability.

Universally applicable diaphragm seal systems are suitable for demanding applications in diverse industries.



Extensive information can be found in our brochure “Diaphragm seal systems with short delivery times” at www.wika.de.

Accessories

- Flushing rings
- Block and saddle flanges
- Plug screws
- Valves
- Instrument mounting brackets and adapters
- Union nuts
- Transition pieces
- Connection adapters, e.g. VARINLINE®, clamp, aseptic, welding sleeves, weld stubs
- Indicator for panel mounting

Certificates and approvals

Given the increasing demands in terms of quality and product safety of industrial products, certified measuring instruments for pressure contribute considerably to the safety of the production processes. Therefore we offer a wide range of approvals and certificates.

Tests

- PMI test
- Roughness measurement
- Coating thickness measurement
- Dye penetrant test
- Surface roughness
- Leak test
- Pressure test

Approvals

- Pressure equipment directive
- EHEDG
- 3-A
- FDA
- NACE
- BAM
- EAC
- GOST
- ATEX

Certificates

- Ingress protection
- Material proof
- RoHS
- Oil- and grease-free
- Accuracies of the span
- Switching accuracy
- Indication accuracy
- Food contact materials

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