Pressure | Temperature | Force

Measurement technology for industrial gases

WIKA

Smart in sensing

WIKA in brief

A family business since 1946
> 11,200 employees
Global service and distribution
1.2 billion euro turnover
Quality management: ISO 9001, ISO 13485
Environmental management: ISO 14001

> WIKA's unique experience and know-how make sensing technology smarter, add more value and prepare it for a sustainable future.

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WIKA – YOUR RELIABLE PARTNER

Whether in metal processing, water treatment, medicine and healthcare or firefighting: modern industrial and medical gas supply technologies enable us to store, distribute and use compressed and liquefied air and chemical gases efficiently and sustainably. All the gas applications listed are subject to stringent standards and regulations. In this context, a high level of occupational safety, energy and labour cost savings and the optimisation of supply chain costs are required. To meet these challenges, WIKA offers manufacturers, distributors and operators of industrial gas equipment a comprehensive range of measuring instruments to cover a wide range of requirements.

As the market leader in measurement technology, we support your transformation with a broad portfolio of innovative and high-precision products, IIoT solutions and services, which we are continuously developing with more than 100 development engineers. Together with our global service and distribution network and our own production, we offer smart, efficient and sustainable top quality for your requirements.
In this way, we can continue to grow together.
That is “Smart in sensing” and you can rely on it now and in the future.

Alexander Wiegand,
Chairman and CEO, WIKA

Detailed information can be found online

CRYOGENIC TANKS

Measuring instruments in cryogenic tanks, ISO containers and tank trailers are used to monitor the level of cryogenic gases. Pressure indicating instruments normally show the absolute pressure or differential pressure. Measuring instruments in tank trailers, in addition, show the pressure before and after the cryogenic pump.

On request from OEM manufactures and gas companies, tanks and trailers are equipped with integrated or stand-alone transmitters. Our customers in this field are manufacturers of cryogenic vessels, companies maintaining and refurbishing cryogenic vessels, industrial gas companies, companies leasing ISO containers and suppliers of associated cryogenic monitoring systems.

Detailed information
can be found online

PRESSURE SENSORS

For industrial applications
A-10

For demanding industrial applications
S-20

For medical gases
MG-1

Intrinsically safe, Ex i
IS-3

PRESSURE GAUGES

Stainless steel case, liquid filling
213.53

Cryo Gauge, stainless steel version
712.15, 732.15

Differential pressure gauge, compact version
716.05

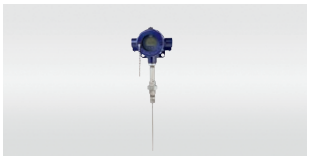
PRESSURE SWITCH

Compact version
PCS

PROCESS TRANSMITTER

Differential pressure transmitter
DPT-10

RESISTANCE THERMOMETER



For additional thermowell
TR12-B

LEVEL SWITCH

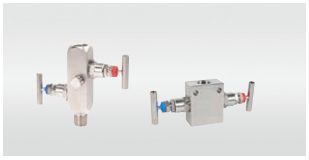
Optoelectronic level switch
OLS-S

FORCE TRANSDUCER

Strain transducer
F9302

VALVES

Needle valve and multiport needle valve
IV10, IV11



Block-and-bleed valve
IV20, IV21

High-pressure connection adapters and couplings
HPAC

Ball valve
BV

Monoflange
IVM

WELDING AND OTHER INDUSTRIAL EQUIPMENT

Pressure measuring instruments with a Bourdon tube are frequently used in welding regulators. Such measuring instruments are used in conventional regulators in the traditional “mickey mouse” design as well as in regulators with flow meters, and also as an integrated component in the plastic case of a regulator unit.

One measuring instrument shows the pressure in the gas cylinders and the other one the regulated pressure in the gas distribution line.

With the exception of traditional welding applications with brass regulators, such measuring instruments on nickel-plated regulators can be used in laboratories and in the specialty gas industry and drinks distribution.

Users in this field are OEM valve manufacturers, gas companies, distributors and manufacturers of welding, beverage and other industrial equipment.

Detailed information
can be found online

PRESSURE GAUGES

Welding gauge ISO 5171
111.11

Welding gauge ISO 5171, safety version
111.31

For CDA (Clean Dry Air) applications
131.15

With back mount connection
PMM01

DirectDrive pressure gauge
PG81, PG91

PRESSURE SENSORS

With radio transmission for general industrial applications
PEW-1000

For precision measurements
P-30

VALVES

Needle valve and multiport needle valve
IV10, IV11

Ball valve
BV

VALVES WITH INTEGRATED PRESSURE REGULATORS (VIPR)

WIKA cooperates with several renowned valve and regulator manufacturers. As time has passed, the design of regulators has become ever more complex in order to ensure higher protection and better utilisation of the measuring instruments.

This has led to the development of measuring instruments that are directly integrated in the valves (VIPR = valve with integrated pressure regulator). Initially as mechanical, and then later as mechatronic/electronic instruments.

The task of measuring instruments in such regulators is to indicate the pressure in a gas container and in the supply line. Modern electronic versions can indicate the remaining usage time, the gas flow rate and the level and also send an alarm when gas contents are low and communicate this wirelessly.

Detailed information
can be found online

PRESSURE GAUGES

DirectDrive pressure gauge
PG81, PG91

Stainless steel
131.11.040

Standard version
111.10

Back mount connection
111.12

With back mount connection
PMM01

With output signal, back mount connection
PMT01

PRESSURE SENSORS

OEM version
0-10

Metal thin-film sensor assembly
TTF-1

Sensor module
MPR-1

Pressure sensor module
MTF-1

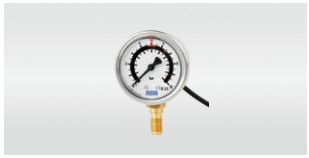
GAS CABINETS

Gas cabinets are used for firefighting. The gas cylinders contain inert, non-reactive and non-toxic gases. The market offers a variety of gas cabinets in different configurations, e.g. 1-, 2- and 3-cylinder designs (or based on company configuration). They can be either new, used or reconditioned.

A gas cabinet can have different features depending on the specific gas. These features include a gas sensor, a sprinkler head, an overflow sensor, automatic operation with automatic purging and overpressure sensor. The connection and valve specifications for gas cabinets and distribution systems are important in selecting the correct measuring and transmitting instruments.

Detailed information
can be found online

PRESSURE SWITCHES



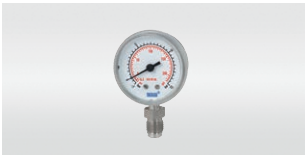
Bourdon tube, stainless steel case
PGS21

Bourdon tube, with electronic pressure switch, stainless steel case
PGS25

PRESSURE SENSOR

For medical gases
MG-1

PRESSURE GAUGE



For CDA (Clean Dry Air) applications
131.15

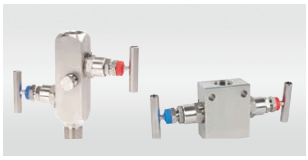
VALVES

Ball valve
BV

Check valve
CV

Needle valve and multiport needle valve
IV10, IV11

High-pressure connection adapters and couplings
HPAC

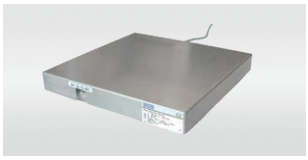


Block-and-bleed valve
IV20, IV21

Monoblock
IBM

High-pressure fittings and accessories
HPFA

GAS CYLINDER SCALE

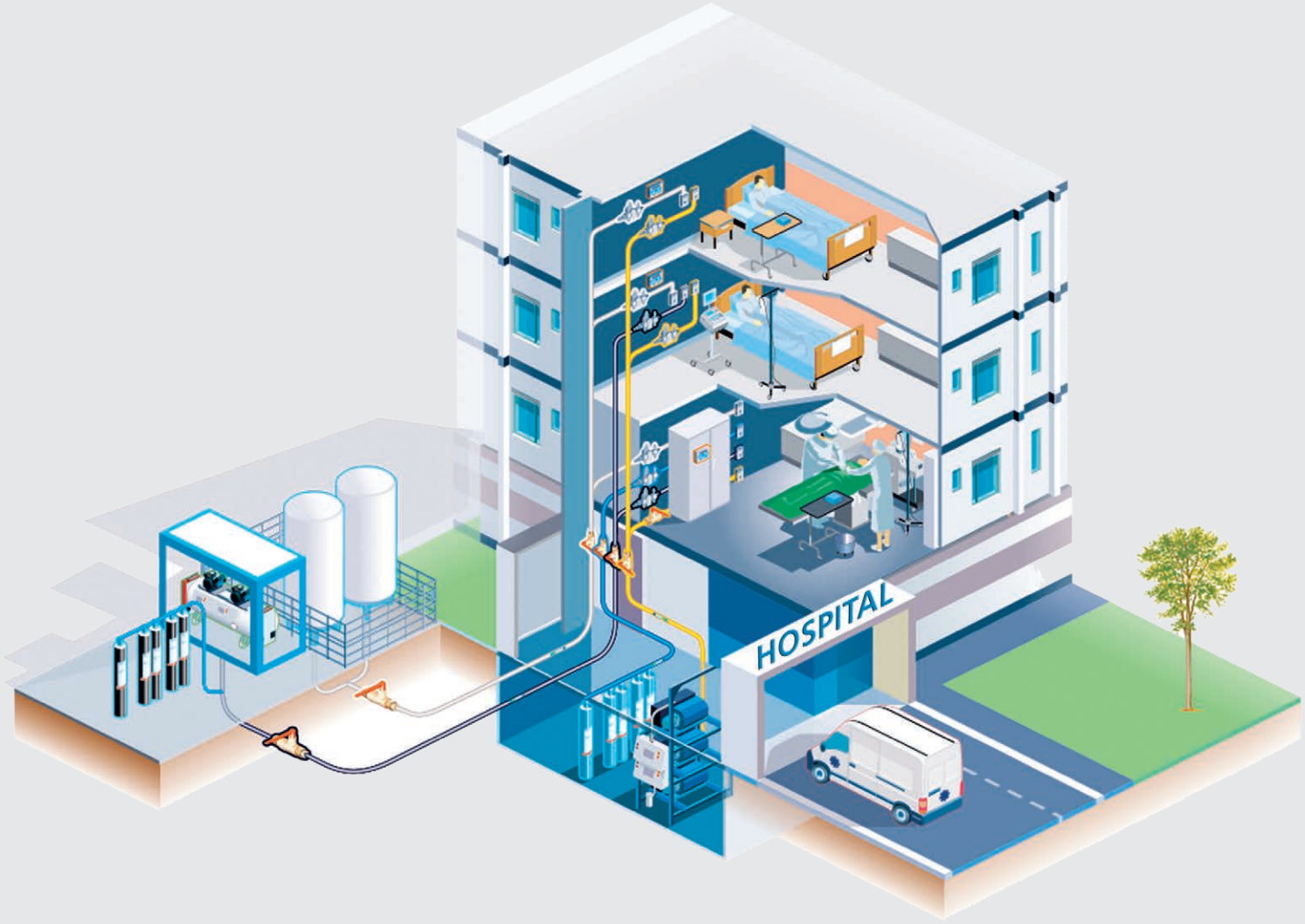


Level measurement of liquid gases
GCS-1

MEDICAL GASES

Whether in the emergency room, the operating room, the intensive care unit, the hospital ward or in ambulance vehicles: Medical gases are widely used in hospitals. There is a variety of medical gases: medical air, carbon dioxide (CO_2), helium (He), laughing gas (N_2O), nitrogen (N_2), nitrogen monoxide (NO), oxygen (O_2), xenon.

To secure smooth supply and distribution of gases, measuring instruments are installed on gas storage tanks or cylinders, valve manifolds, pressure controllers, closure control cabinets as secondary regulators at gas distribution systems and at user stations. For vacuum monitoring, pressure gauges are used. Our customers in this area are gas companies, manufacturers of medical devices and also manufacturers of pressure reducers for medical applications.



Detailed information
can be found online

PRESSURE GAUGES

Standard version
111.10, 111.12

Panel mounting series
111.16, 111.26

Stainless steel case, liquid filling
213.53

Bourdon tube, stainless steel case
PGT21

Cryo Gauge, stainless steel version
712.15, 732.15

Capsule pressure gauge
611.10, 631.10

DirectDrive pressure gauge
PG81, PG91

PRESSURE SENSORS

With radio transmission for general industrial applications
PEW-1000

For general industrial applications
A-10

OEM version
O-10

For medical gases
MG-1

Metal thin-film sensor assembly
TTF-1

For demanding industrial applications
S-20

Sensor module
MPR-1

VALVES

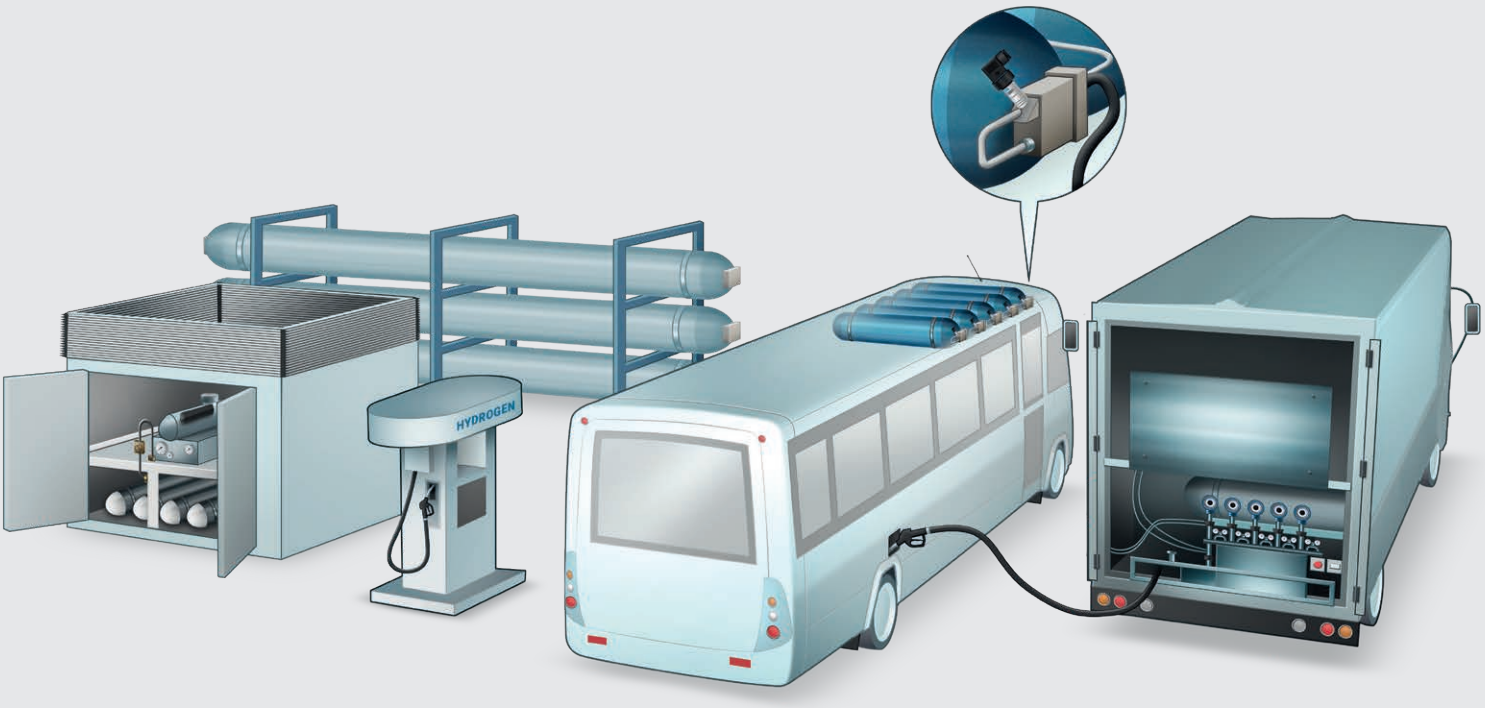
Ball valve
BV

Needle valve and multiport needle valve
IV10, IV11

HYDROGEN

Because of its calorific value, hydrogen is often used as fuel. Hydrogen fuel cells generate electricity from oxygen and hydrogen. Fuel cells are used in automobiles, spacecraft, remote weather stations and submarines. Other uses for hydrogen are in the fertiliser and paint industries, in laboratories, in the food industry and the chemical industry. Hydrogen is also used in welding processes. TIG welding and plasma welding are particularly noteworthy here.

Hydrogen is required as a reducing agent in chemical industries. Hydrogen has higher requirements for material stability than other gases. Our customers who use instruments in hydrogen applications are often in the automotive industry, the manufacturing of fuel stations, gas supply systems, test benches for laboratories, gas analysing equipment, etc.



Detailed information
can be found online

PRESSURE SENSORS

For demanding industrial applications
S-20

For mobile hydrogen application
MH-3-HY

Flush diaphragm
S-11

Metal thin-film sensor assembly
TTF-1

Ultra high purity transducer
WU-20

Intrinsically safe, Ex i
IS-3

Flameproof enclosure Ex d, standard version and with flush diaphragm
E-10, E-11

With Elgiloy Sensor
OT-1

PRESSURE GAUGES

Bourdon tube pressure gauge
232.50.063

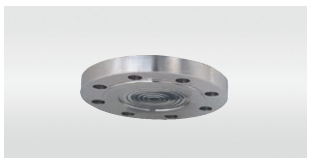
Bourdon tube pressure gauge
211.11, 231.11

Bourdon tube pressure gauges
131.11.050

PROCESS TRANSMITTER

Universal process transmitter, intrinsically safe, Ex i
UPT-20

DIAPHRAGM SEAL



With flange connection
990.27

DIAL THERMOMETER

High-quality process version
55

RESISTANCE THERMOMETERS

Strap-on thermometer with connection lead
TF44

For insertion, screw-in with optional process connection
TR10-H

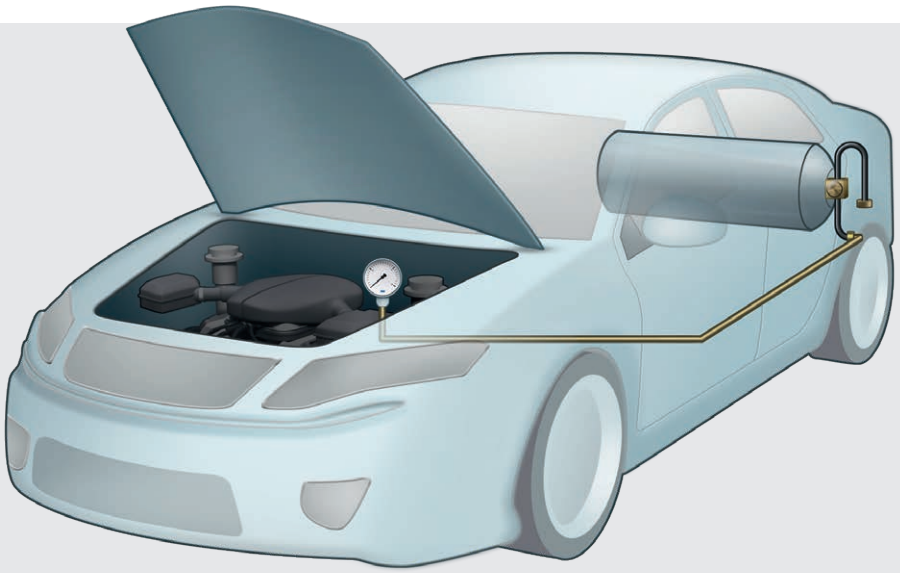
Products for use in hydrogen applications are available on request.

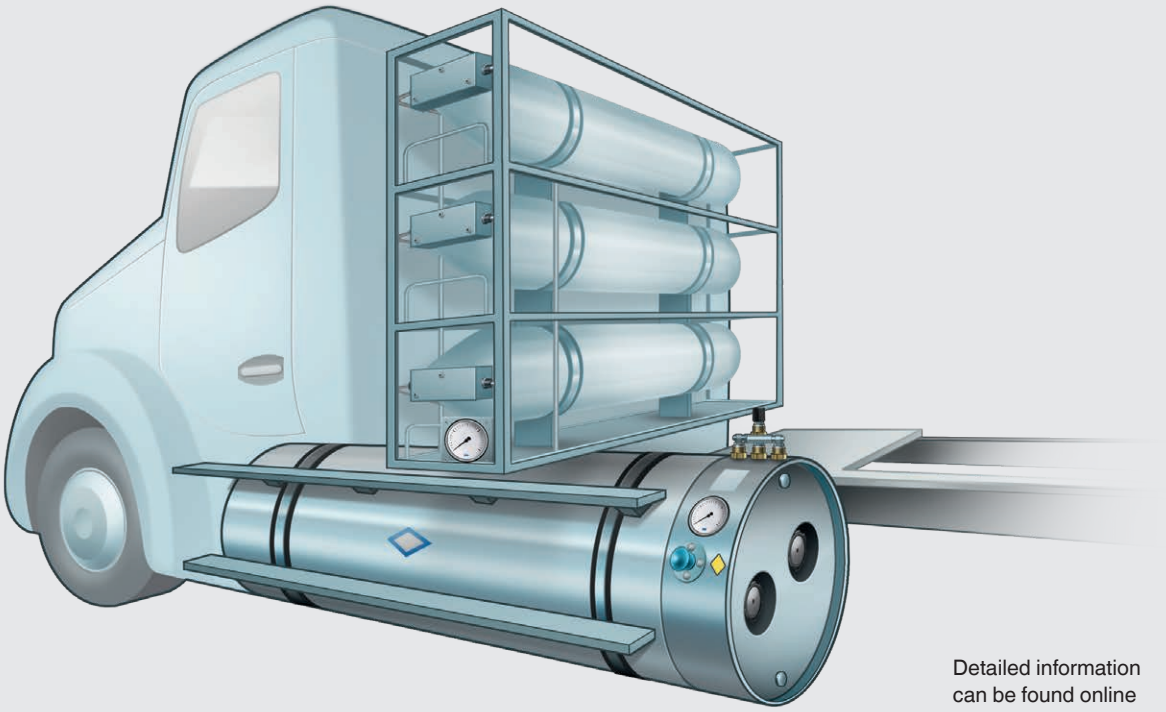
LPG, LNG AND CNG ACCESSORIES

When travelling with a natural gas fuelled car one can save up to 60 % on fuel costs. Moreover, natural gas is one of the cleanest energy sources: It generates no unburned hydrocarbon emissions, which are considered hazardous and carcinogenic, and reduces CO_2 emissions by 20 %.

This is why these vehicles are allowed on roads on which others are not. WIKA measuring instruments are used to indicate the level of compressed (CNG) or liquefied (LNG) natural gas inside of a tank.

LPG – liquefied petroleum gas – is another fuel gas alternative, increasingly used not only in vehicles but also, for example, in heating systems and cooking appliances.





Detailed information can be found online

PRESSURE GAUGES

With output signal, stainless steel case
PGT21

Stainless steel case, with liquid filling
213.53

Stainless steel version
232.50

Copper alloy
111.10

ACCESSORIES

Seals
910.17

SENSORS

Density and temperature sensor
DTG-30

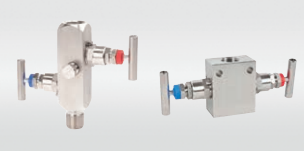
Density and temperature sensor
DTL-30

GAS-ACTUATED THERMOMETER

With capillary and instrument mounting bracket
F73

VALVES

Needle valve and multiport needle valve
IV10, IV11



Block-and-bleed valve
IV20, IV21

Valve manifold for differential pressure measuring instruments
IV30, IV31

High-pressure needle valve
HPNV

Ball valve
BV

High-pressure fittings and accessories
HPFA

High-pressure connection adapters and couplings
HPAC

Monoblock with thread and flange connection
IBM, IBF

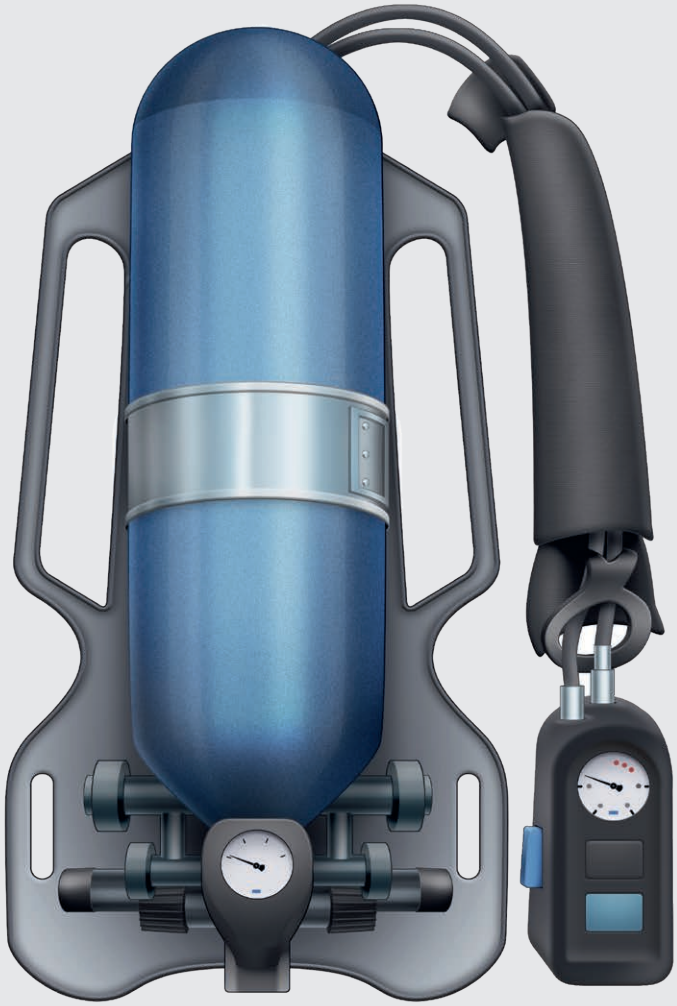
Monoblock for sampling and injection processes
IBS3, IBJ4

PROTECTIVE BREATHING APPARATUS

Protective breathing apparatus are often referred to as self-contained breathing apparatus (SCBA), compressed air breathing apparatus (CABA) or simply breathing apparatus (BA).

Protective breathing apparatus is worn by rescue workers, firefighters or others to provide breathable air in life-threatening or unhealthy atmospheres.

The pressure gauges from WIKA are installed on the valve of the breathing apparatus cylinder or on a mobile hand-held instrument. They are used to display the oxygen remaining in the cylinder, so that appropriate measures can be taken in good time. WIKA supplies its products to leading international manufacturers of protective breathing apparatus.



Detailed information can be found online

PRESSURE GAUGES

DirectDrive pressure gauge
PG81, PG91

Standard version
111.10

Welding gauge ISO 5171
111.11

Stainless steel case, liquid filling
213.53

With back mount connection
PMM01

With output signal, back mount connection
PMT01

Pressure gauge with electrical output signal
PGT10

PRESSURE SENSORS

Metal thin-film sensor assembly
TTF-1

Spanner width 19, miniature design
M-10

For medical gases
MG-1

Pressure sensor module
MTF-1

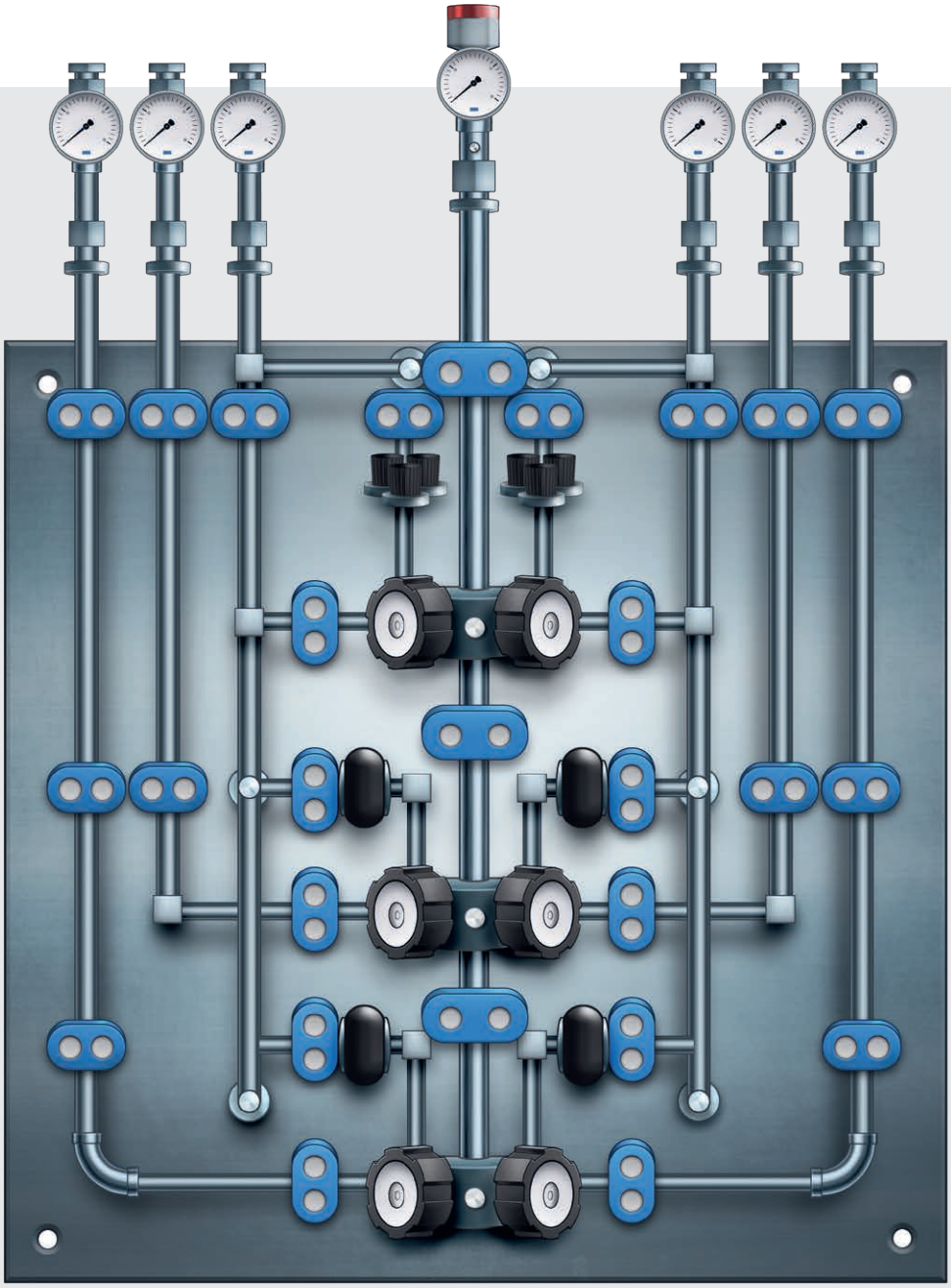
VALVE

Needle valve and multiport needle valve
IV10

GAS SUPPLY AND CONTROL SYSTEMS

In the gas industry, where safety and reliability are of critical importance, the correct regulators equipped with appropriate measuring and control instruments are vital to regulate gases precisely.

The control is ensured through a system of regulators, mechanical measuring and switching instruments as well as transmitters. For these applications, WIKA supplies products to industrial gas companies and manufacturers of gas supply systems (e.g. point-of-use panels, primary pressure control panels etc.), particularly in the speciality gas and chemical industries.



Detailed information can be found online

PRESSURE SWITCHES

Bourdon tube, with electronic pressure switch, stainless steel case

PGS25

With output signal, stainless steel case

PGT21

PRESSURE GAUGES

Standard version

111.12

Welding gauge ISO 5171

111.11

Standard version

111.10

Safety version, stainless steel

232.30

Stainless steel version

232.50

DirectDrive pressure gauge

PG81, PG91

PRESSURE SENSORS

For general industrial applications

A-10

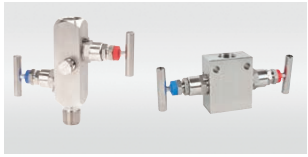
With radio transmission for general industrial applications

PEW-1000

VALVES AND PROTECTIVE DEVICES

Needle valve and multiport needle valve

IV10, IV11



Block-and-bleed valve

IV20, IV21

Monoblock

IBM

Ball valve

BV

Check valve

CV

Snubber for pressure measuring instruments

910.12

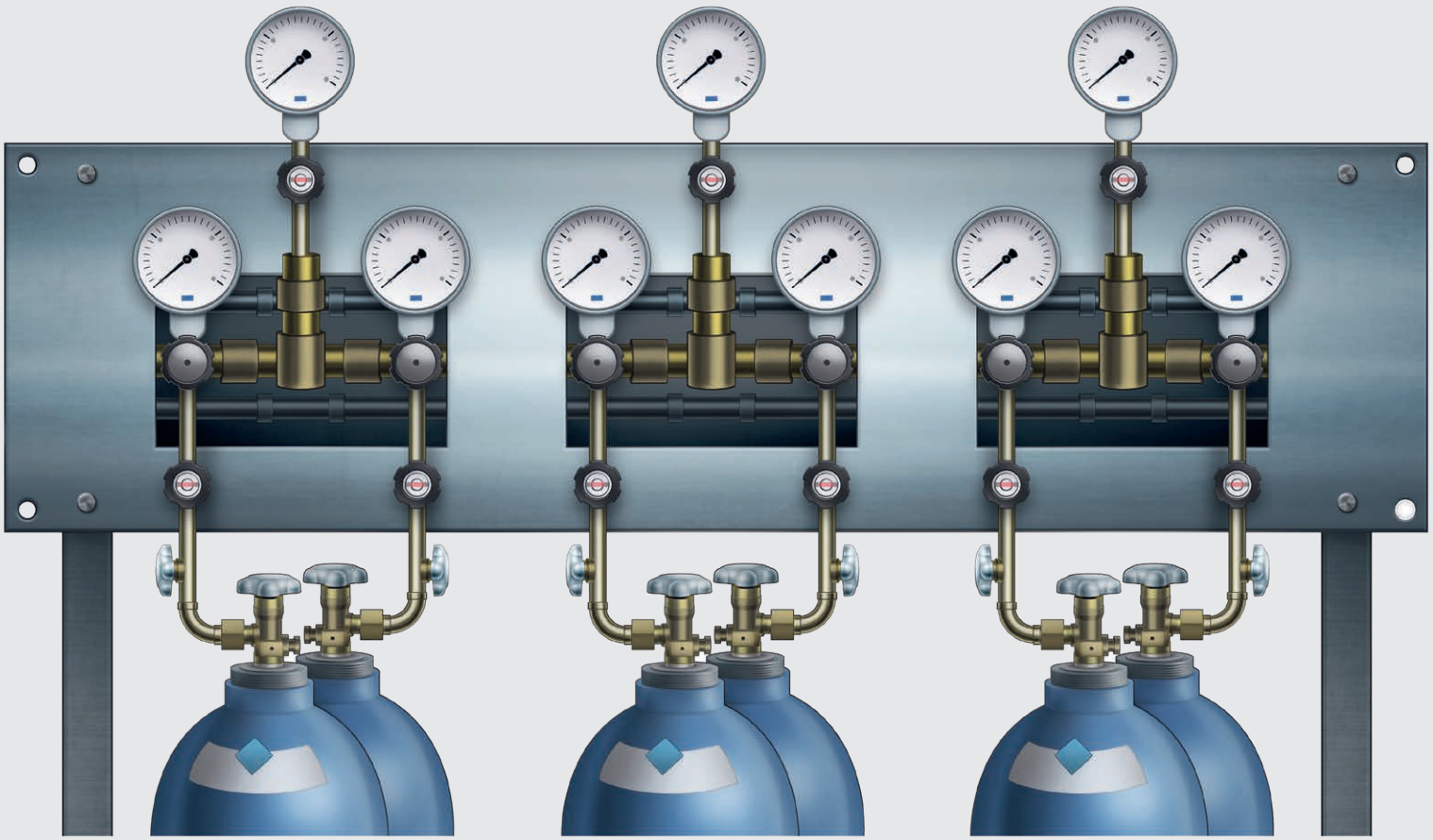
Overpressure protectors

910.13

CYLINDER/VALVE MANIFOLDS

A cylinder manifold is a group of gas cylinders, commonly used to supply gases via a pipeline. Via a valve manifold, the cylinders are often grouped into a primary and a secondary bundle. Initially, the gas from the primary bundle is used first, where the gas is consumed equally from all cylinders, as they are connected in parallel through a common outlet.

Once the levels in the cylinders are sufficiently low, a pressure gauge with switch contacts (PGS) or a pressure transmitter switches to the secondary valve manifold, so that the primary cylinder bundle can be exchanged. Valve manifolds are used to supply gas from one central source to different usage points. In hospitals, for instance, manifolds are used to supply nitrous oxide, Entonox or oxygen.



Detailed information
can be found online

PRESSURE SWITCH

Stainless steel version
PGS11

PRESSURE SENSORS

For demanding industrial applications
S-20

With radio transmission for general industrial applications
PEW-1000

Intrinsic safety Ex ia
IS-3

PRESSURE GAUGES

Standard version
111.10

Welding gauge ISO 5171
111.11

Stainless steel version
131.11

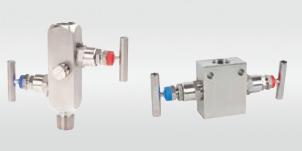
Safety version, stainless steel
232.30

Stainless steel version
232.50

VALVES AND PROTECTIVE DEVICES

Stopcocks and shut-off valves
910.10

Snubber for pressure measuring instruments
910.12



Block-and-bleed valve
IV20, IV21

3-valve manifold
IV30, IV31

Check valve
CV

Ball valve
BV

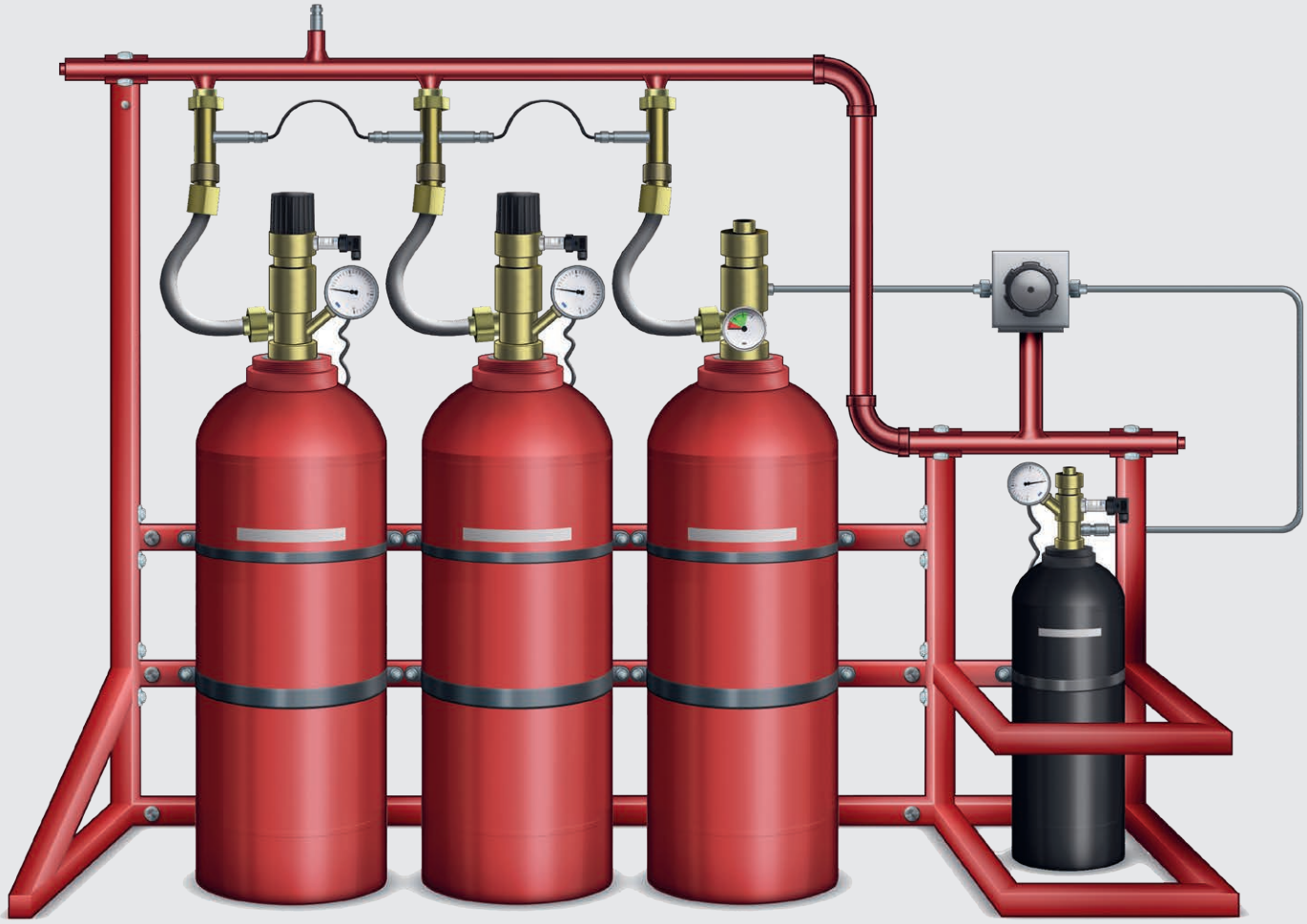
WIKA can supply valve manifolds equipped with flange connections in accordance with IEC 61518.
We can also offer customer-specific air distribution manifolds.

GAS-BASED FIRE SUPPRESSION SYSTEMS

The firefighting industry covers a variety of applications in industrial, commercial and residential markets. This typically functions in one of two ways: The first reduces the oxygen content in the atmosphere to a level where self-sustained combustion can no longer occur. The second is to react chemically with the fire-absorbing heat and initiate a chain reaction that stops the combustion.

Gas-based fire suppression systems (CO_2, FM200®, Novec™, Inergen®, Argonite) are a critical component for protecting property and human life in a wide range of buildings such as apartments, data centres, hospitals, hotels, parking garages, restaurants and universities as well as in manufacturing and processing plants.

The task of pressure gauges is to monitor and trigger an alarm when the pressure in gas cylinders deviates from the required values. To use instruments in stationary systems, a VdS or LPCB approval is required. In contrast, pressure switches for mobile firefighting systems do not need this approval. Here WIKA works in close cooperation with OEMs in the firefighting industry and with valve manufacturers.



Detailed information can be found online

PRESSURE SWITCHES

With VdS and LPCB approval
PGS11.040

With VdS approval
PGS21.050

Contact pressure gauge
PGS25

Compact version
PSM01

With settable hysteresis
PSM02

With output signal
PGT21

PRESSURE GAUGES

Standard version
111.10

With VdS approval
111.12.040

Bourdon tube pressure gauges
113.53

DirectDrive pressure gauge
PG81, PG91

PRESSURE SENSOR

Sensor module
TI-1

COMPRESSION FORCE TRANSDUCERS

Standard, to 30 t
F1201

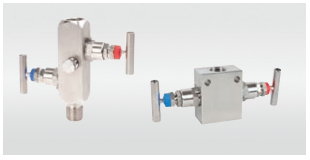
With bilateral spherical force introduction up to 50 t
F186

VALVES

Ball valve
BV

Check valve
CV

Needle valve and multiport needle valve
IV10, IV1



Block-and-bleed valve
IV20, IV21

NITROGEN AND OXYGEN GENERATORS

Nitrogen and oxygen generators represent a viable alternative to on-site generating and storing oxygen and nitrogen for laser cutting, electronics, shipping, healthcare or the beverage industry. Generators substitute and eliminate the use of rented high-pressure gas cylinders.

Measuring instruments in generators are used to define the gas flow in the take-off line as well as to monitor the pressure swing adsorption process (PSA) and, alternatively, to monitor the pressure inside the vessel, where the required gas is generated. Here, both mechanical pressure gauges (with liquid filling) as well as transmitters are used.

Oxygen or nitrogen generators consequently can be connected to a gas dryer and/or compressor that would be filling produced gases into intermediate high-pressure storage bundles.

Detailed information
can be found online

PRESSURE GAUGES

Stainless steel case, liquid filling

233.5x

Stainless steel case, liquid filling

213.5x

Stainless steel version

232.50

Back mount connection

111.12

PRESSURE SENSORS

For demanding industrial applications

S-20

Intrinsically safe, Ex i

IS-3

For industrial applications

A-10

For medical gases

MG-1

RESISTANCE THERMOMETERS

Miniature design, standard version

TR33

For installation in a thermowell

TR/TC10B

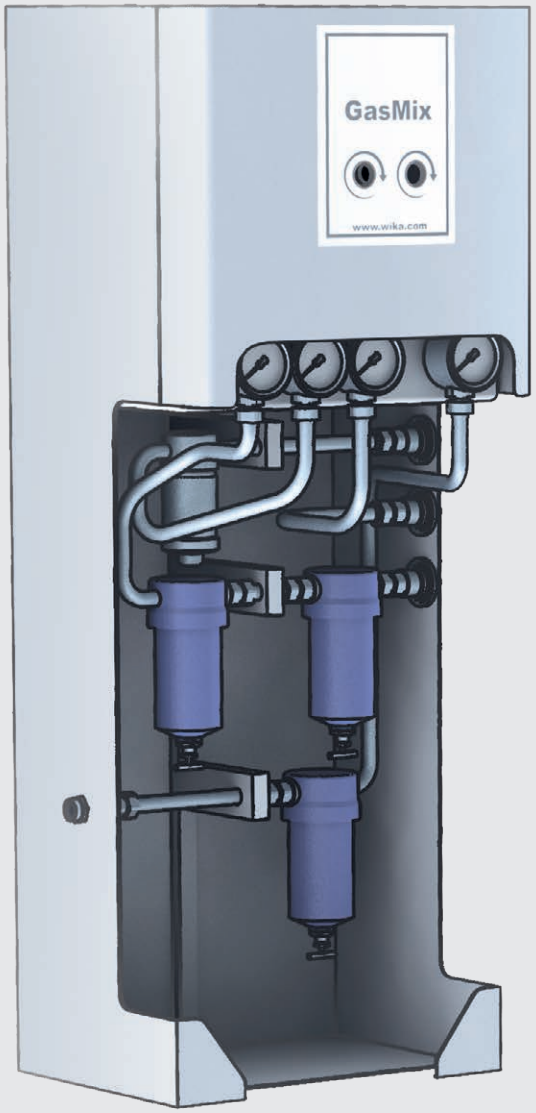
GAS MIXERS

Gas mixers, also named gas blenders, are systems able to mix two or more gases from gas cylinders. The gas mixture produced allows to avoid using expensive premixed gas cylinders.

The major application is to obtain bi- or tricomponent gas mixtures from supplied gases such as argon, oxygen, nitrogen and carbon dioxide.

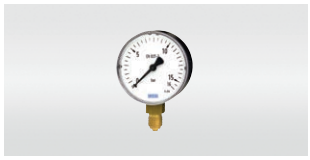
Gas mixers and gas mixing systems are used in many industrial and analytical applications where a high volume of gas mixture is needed. Amongst these are protective atmosphere packaging in the food industry, welding in the automotive industry, glass manufacturing, etc.

This is particularly useful if you have high gas consumption, use rare mixtures or must change the gas composition frequently. Measuring locations can include mechanical pressure gauges such as 213.53 and also pressure sensors such as O-10.



Detailed information
can be found online

PRESSURE GAUGES



Standard version
111.10

Welding gauge ISO 5171
111.11

Back mount connection
111.12

Stainless steel case, liquid filling
213.53

PRESSURE SENSORS

For industrial applications
A-10

For demanding industrial applications
S-20

Intrinsically safe, Ex i
IS-3

PRESSURE SWITCH

Compact version
PSM01

FURTHER APPLICATIONS

DISPENSING SYSTEMS IN PUBS

The design of beer dispensing systems is subject to stringent technical specifications and performance requirements. The pressure gauges are used with regulators to control the flow of beer push gas, i.e. a mixture of CO_2 and N_2.

These can be found in pubs, smaller breweries with bars, restaurants, etc. The customer base ranges from specialised OEM valve manufacturers to service and installation companies within this market.

FIREFIGHTING IN VEHICLES

To prevent fires on buses, caused by engine overheating, modern vehicles are equipped with on-board firefighting systems based on inert gases for fire suppression, water mist and dry chemical extinguishing agents.

Typical customers are manufacturers of automatic fire suppression systems for critical and harsh environments. In these applications the PSM02 pressure switch, for example, can be used.

IIOT PROVIDERS AND TELEMETRY INTEGRATORS

Manual inventory checks are a thing of the past. The telemetry subsegment in the industrial gas market is represented by companies that deliver the inventory level, the pressure and the temperature as data – via connected sensors and a cloud data platform. The customers communicate online with their stocks of compressed or liquefied gas to generate forecasts, set alerts and optimise supply chain costs.

END-TO-END IIOT SOLUTIONS

WIKA offers intelligent sensor solutions to provide answers to global challenges and promote mutual growth in the packaged industrial gases sector.

As the market leader, WIKA has the potential to make data profitable along the entire value chain and develop it as one of the most valuable resources. The WIKA portfolio offers IIoT-capable devices, connectivity and cloud solutions, as well as mobile applications and customised dashboards.

FURTHER APPLICATIONS

GAS CYLINDER BUNDLES

Manufacturers of gas cylinder bundles (also called “cradles” in the USA) are often companies who maintain and refurbish gas cylinders.

The size and pressure of the bundles vary greatly and, thus, also the associated measurement technology: from mechanical pressure gauges up to sensors, transmitters and telemetry.

COMPRESSED GAS TRAILERS

Trailers for compressed natural gas, hydrogen and other industrial gases are assembled from steel and composite high-pressure cylinders. Tube trailers reliably facilitate gas transport through “virtual” gas pipelines. Measuring and other instruments are normally installed at the trailer‘s instrumentation panel. The trailer consisting of six tube cylinders, for instance, would normally have 1 pressure gauge, 1 check valve, 1 isolation valve and 1 safety relief valve.

AMBULANCE VEHICLES

OEM manufacturers of ambulance vehicles are involved in the design of on-board oxygen supply systems which must satisfy stringent healthcare requirements.

These on-board oxygen systems not only include high-pressure gas cylinders with regulators but also built-in vacuum suction, monitoring and supply systems to control the stock of required gas.

VACUUM SUCTION UNITS

Portable suction machines or apparatus, also known as aspirators, are used for minor surgery and professional use both in emergency and hospital service. Most commonly, suctioning is done for the removal of secretions from the respiratory tract, but sometimes also for the removal of blood or other materials. Airway suctioning is also performed for diagnostic purposes. Aspirators are also ideal for home post-surgery treatment.
Portable suction units are equipped with overflow valves, suction regulator, vacuum gauge; they can have a disposable filter and a set of disposable tubes.

PUSH-PULL MARKET STRATEGY

To meet the market requirements and learn the technical product requirements, WIKA maintains healthy business relationships with stakeholders in the industrial gas sector.

The peculiarity of the industrial gases market segment is that WIKA's customer base is mainly represented by relevant OEM manufactures – manufacturers of valves, gas supply systems, gas cabinets, cryogenic tanks, protective breathing apparatus, etc.

The major part of all of the industrial gases infrastructure which contains measuring units is used and owned by major industrial gas companies and gas distributors.

That is why their involvement in the start-up phases at WIKA is becoming increasingly important in order to understand the market requirements and the industry standards. In some applications it is feasible to go to such users as fire services, hospitals, beverage distributors or users of welding equipment to learn further specifics about the market.

Knowing the requirements of the end users helps WIKA, on the one hand, to develop a PUSH strategy; and on the other hand, close relationships with the users' OEM suppliers are the basis for a PULL strategy.

CUSTOMER FOCUS AT THE FOREFRONT

WIKA is a customer-oriented organisation.

To approach the market as closely as possible, WIKA conducts dedicated value innovation workshops with its customers. In such a way, WIKA generates ideas on further product development and market adoption requirements for individual customers.

Consequently the ideas collected are processed by one of the specialised development departments at WIKA for customer-specific solutions. This helps to establish good relations with the engineering departments of customer organisations. The lasting relationship with key customers has ensured the transfer and systematisation of knowledge on measuring instruments since WIKA was founded over seventy years ago. This is a solid base for the development of new products.

Even if quality, delivery performance and cost pressure represent hygiene factors in current day-to-day business with industrial gases, with its go-to-market strategy WIKA has confidently started dialogues relating to new, digitally communicating products. Image recognition, Bluetooth data transmission and higher pressure requirements are just a few of the challenges that WIKA has been successfully tackling since the start of the new millennium.

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