

NIPRESS

PRESSURE SWITCHES, PRESSURE TRANSMITTERS
AND DIFFERENTIAL PRESSURE TRANSMITTERS

3 YEARS WARRANTY

35 YEARS
ANNIVERSARY

TIVELCO

PRESSURE SENSORS



PRESSURE SWITCHES

PRODUCT

DK-100

DK-200

DK-300

FEATURES

- Silicon inner diaphragm
- Relative pressure measurement
- Configurable via PC or programming device
- 1 or 2 PNP output

- Ceramic inner diaphragm
- Relative or absolute pressure measurement
- Configurable via PC or programming device
- 1 or 2 PNP output

- Stainless steel inner or flush diaphragm
- Relative or absolute pressure measurement
- Up to 4 switch outputs
- Rotatable and configurable 4-digit LED display module

APPLICATION

- Ideal for pneumatic and vacuum applications
- Mechanical and plant engineering
- HVAC

- Ideal for hydraulic and mechanical engineering applications for measuring, control and process technology
- Mechanical and plant engineering
- Energy industry
- Hydraulics

- Mechanical and plant engineering
- HVAC
- Environmental engineering

SPECIFICATION

Sensor: silicon
Nominal pressure gauge:
 0 - 10 bar (0 - 145 psig)
Accuracy: 1%
Medium temperature:
 -25 °C ... +85 °C
 (-13 °F ... +185 °F)
Ambient temperature:
 -40 °C ... +85 °C
 (-40 °F ... +185 °F)
Output:
 1 or 2 PNP switch output
Process connection:
 1/8" BSP internal thread
Protection: IP54

Sensor: ceramic
Nominal pressure gauge:
 0 - 400 bar (0 - 5800 psig)
Accuracy: 1%
Medium temperature:
 -25 °C ... +85 °C
 (-13 °F ... +185 °F)
Ambient temperature:
 -25 °C ... +85 °C
 (-13 °F ... +185 °F)
Output:
 1 or 2 PNP switch output
Process connection:
 1/4" BSP
Protection: IP67

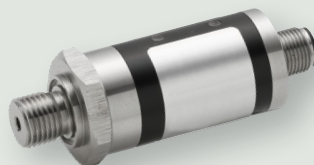
Sensor: stainless steel
Nominal pressure gauge:
 0 - 600 bar (0 - 8700 psig)
Accuracy: 0.25 / 0.5%
Medium temperature:
 -40 °C ... +125 °C
 (-40 °F ... +257 °F)
Ambient temperature:
 -40 °C ... +85 °C
 (-40 °F ... +185 °F)
Output:
 1 - 2 - 4 PNP switch output
Process connection:
 1/4", 1/2", 3/4" BSP (with flush membrane); 1/4", 1/2" NPT
Protection: IP65, IP68

OPTIONS

- 1 - 5 V analogue output

- Oxygen application
- Oil- and grease free application

- Ex ia version*
- Analogue 4 - 20 mA output
- Integral cable version



PRESSURE SWITCHES

DK-400

- Welded stainless steel flush diaphragm
- Relative or absolute pressure measurement
- Up to 4 switch outputs
- Rotatable and configurable 4-digit LED display module

- Ideal for viscous and pasty media
 - Food and beverage industry
 - Medical technology
 - Pharmaceutical industry

Sensor: stainless steel
Nominal pressure gauge: 0 - 40 bar (0 - 580 psig)
Accuracy: 0,25 / 0,5%
Medium temperature: -40 °C ... +125 °C (-40 °F ... +257 °F)
Ambient temperature: -40 °C ... +85 °C (-40 °F ... +185 °F)
Output: 1 - 2 - 4 PNP switch output
Process connection: 1/2", 3/4", 1" BSP; 3/4", 1 1/2" 2" Triclamp; Dairy pipe DN25, DN40, DN50, DN40/50 VARIVENT
Protection: IP65, IP68

- Ex ia version*
- Analogue 4 - 20 mA output
- Integral cable version



DK-500

- Welded stainless steel inner diaphragm
- Relative or absolute pressure measurement
- Stainless steel housing
- 1 or 2 PNP output
- Rotatable and configurable 4-digit LED display module

- Mechanical and plant engineering
- HVAC
- Environmental engineering

Sensor: stainless steel
Nominal pressure gauge: 0 - 600 bar (0 - 8700 psig)
Accuracy: 0.25 / 0.5%
Medium temperature: -40 °C ... +125 °C (-40 °F ... +257 °F)
Ambient temperature: -40 °C ... +85 °C (-40 °F ... +185 °F)
Output: 1 or 2 PNP switch output
Process connection: 1/4", 1/2" BSP; 1/4", 1/2" NPT
Protection: IP67

- Ex ia version*
- Analogue 4 - 20 mA output



DK-600

- Ceramic internal diaphragm
- Relative or absolute pressure measurement
- Robust, stainless steel housing
- 1 or 2 PNP output
- Rotatable and configurable 4-digit LED display module

- For rough conditions and difficult conditions
- Mechanical and plant engineering
- Environmental engineering

Sensor: ceramic
Nominal pressure gauge: 0 - 600 bar (0 - 8700 psig)
Accuracy: 0.5%
Medium temperature: -40 °C ... +125 °C (-40 °F ... +257 °F)
Ambient temperature: -40 °C ... +85 °C (-40 °F ... +185 °F)
Output: 1 or 2 PNP switch output
Process connection: 1/4", 1/2" BSP; 1/4", 1/2" NPT
Protection: IP67

- Ex ia version*
- Analogue 4 - 20 mA output
- PVDF process connection



DK-700

- Welded stainless steel flush diaphragm
- Relative or absolute pressure measurement
- 1 or 2 PNP output
- Rotatable and configurable 4-digit LED display module

- Ideal for high hygienic applications
- Food and beverage industry
- Pharmaceutical industry

Sensor: stainless steel
Nominal pressure gauge: 0 - 40 bar (0 - 580 psig)
Accuracy: 0.25 / 0.5%
Medium temperature: -40 °C ... +125 °C (-40 °F ... +257 °F)
Ambient temperature: -40 °C ... +85 °C (-40 °F ... +185 °F)
Output: 1 or 2 PNP switch output
Process connection: 1/2", 3/4", 1" BSP; 3/4", 1 1/2", 2" Triclamp; Dairy pipe DN25, DN40, DN50, DN40/50 VARIVENT
Protection: IP67

- Ex ia version*
- High temperature version
- Analogue 4 - 20 mA output



PRESSURE TRANSMITTERS

D-200

- Ceramic internal diaphragm for overpressure measurement
- Relative pressure measurement
- Ideal for measuring aggressive mediums - gases, steam, fluids
- Not suggested to use directly with mediums tending to sedimentation, crystallization or solidification
- Mechanical and plant engineering
- Hydraulics
- HVAC

Sensor: ceramic
Nominal pressure gauge:
 0 - 400 bar (0 - 5800 psig)
Accuracy: 0.5%
Medium temperature:
 -25 °C ... +125 °C
 (-13 °F ... +257 °F)
Ambient temperature:
 -25 °C ... +85 °C
 (-13 °F ... +185 °F)
Output:
 4 - 20 mA, 0 - 10V
Process connection:
 1/4", 1/2" BSP;
 1/4" NPT
Protection: IP65, IP67

- Oil- and grease free version

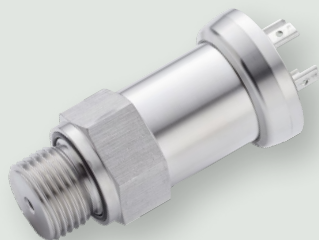


D-300

- Stainless steel internal diaphragm
- Relative or absolute pressure measurement
- For static or dynamic measurement
- Not suggested to use directly with mediums tending to sedimentation, crystallization or solidification
- Mechanical and plant engineering
- Refrigeration engineering
- Hydraulics
- Energy industry
- Environmental engineering
- HVAC

Sensor: stainless steel
Nominal pressure gauge:
 0 - 600 bar (0 - 8700 psig)
Accuracy:
 0.1 / 0.25 / 0.5%
Medium temperature:
 -40 °C ... +125 °C
 (-40 °F ... +257 °F)
Ambient temperature:
 -40 °C ... +85 °C
 (-40 °F ... +185 °F)
Output: 4 - 20 mA, 0 - 10V
Process connection:
 1/4", 1/2" BSP;
 1/4", 1/2" NPT
Protection: IP65, IP67, IP68

- Ex ia version*
- SIL 2*
- Integral cable version
- Absolute pressure measurement (over 0.4 bar; 5.8 psig)



D-400

- Stainless steel flush diaphragm
- Relative or absolute pressure measurement (absolute pressure over 0.6 bar; 8.7 psig)
- Vacuum resistant
- Sensor with low surface roughness
- Ideal for pressure measurement of contaminated mediums and at the bottom (level)
- Food and beverage industry
- Pharmaceutical industry
- Mechanical and plant engineering

Sensor: stainless steel
Nominal pressure gauge:
 0 - 400 bar (0 - 5800 psig)
Accuracy: 0.25 / 0.5%
Medium temperature:
 -40 °C ... +125 °C
 (-40 °F ... +257 °F)
Ambient temperature:
 -40 °C ... +85 °C
 (-40 °F ... +185 °F)
Output: 4 - 20 mA, 0 - 10V
Process connection:
 1/2", 3/4", 1" BSP;
 3/4", 1 1/2", 2" Triclamp;
 DN25, DN40/50 sanitary
 DN40/50 VARIVENT
Protection: IP65, IP67, IP68

- Ex ia* version
- SIL 2*
- High temperature version
- Integral cable version
- Hygienic version



D-500

- Ceramic flush diaphragm
- Relative or absolute pressure measurement
- For the measurement of pasty, polluted or aggressive media
- For oxygen applications at low pressure range
- Mechanical and plant engineering
- Energy industry
- Medical technology
- Environmental engineering

Sensor: ceramic
Nominal pressure gauge:
 0 - 600 bar (0 - 8700 psig)
Accuracy: 0.5%
Medium temperature:
 -40 °C ... +125 °C
 (-40 °F ... +257 °F)
Ambient temperature:
 -40 °C ... +85 °C
 (-40 °F ... +185 °F)
Output: 4 - 20 mA, 0 - 10V
Process connection:
 1/4", 1/2" BSP;
 1/4", 1/2" NPT
Protection:
 IP65, IP67, IP68

- Ex ia version*
- Oxygen application
- SIL 2*
- PVDF process connection
- Integral cable version



PRESSURE TRANSMITTERS

D-600

- Ceramic flush diaphragm
- Relative pressure measurement

- Preferred media: water, fuels and oils, sewage, aggressive media
 - Ideal for more viscous or polluted media
 - Mechanical and plant engineering
- Energy industry
- Medical technology
- Environmental engineering

Sensor: ceramic

Nominal pressure gauge:

0 - 60 bar (0 - 870 psig)

Accuracy: 0.5%

Medium temperature:

-40 °C ... +125 °C

(-40 °F ... +257 °F)

Ambient temperature:

-25 °C ... +85 °C

(-13 °F ... +185 °F)

Output: 4 - 20 mA, 0 - 10V

Process connection:

¾" BSP

Protection: IP65, IP67, IP68

- Ex ia version*
- SIL 2*
- PVDF process connection (for aggressive media)
- Integral cable version



D-700

- Ceramic flush diaphragm
- Relative pressure measurement
- Ideal for measuring small system pressure

- Preferred media: water, fuels and oils, aggressive media, pasty or viscous media
- Mechanical and plant engineering
- Laboratory
- Environmental engineering

Sensor: ceramic

Nominal pressure gauge:

0 - 20 bar (0 - 290 psig)

Accuracy: 0.25 / 0.5 / 1%

Medium temperature:

-40 °C ... +125 °C

(-40 °F ... +257 °F)

Ambient temperature:

-40 °C ... +85 °C

(-40 °F ... +185 °F)

Output: 4 - 20 mA, 0 - 10V

Process connection:

½" BSP

Protection: IP65, IP67, IP68

- Ex ia version*
- PVDF or stainless-steel process connection
- 99.9% aluminium oxide ceramic sensor
- Teflon coating
- Integral cable version



D-800

- Stainless steel flush diaphragm
- Relative pressure measurement
- Robust construction
- Modular construction

- Preferred media: water, fuels and oils
- Mechanical and plant engineering
- Energy industry
- Environmental engineering

Sensor: stainless steel

Nominal pressure gauge:

0 - 40 bar (0 - 580 psig)

Accuracy: 0.1 / 0.25 / 0.5%

Medium temperature:

-40 °C ... +125 °C

(-40 °F ... +257 °F)

Ambient temperature:

-40 °C ... +85 °C

(-40 °F ... +185 °F)

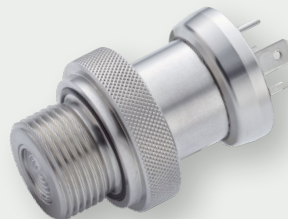
Output: 4 - 20 mA, 0 - 10V

Process connection:

¾" BSP

Protection: IP65, IP67, IP68

- Ex ia version*
- SIL 2*
- Integral cable version



D-900

- Ceramic internal diaphragm
- Relative or absolute pressure measurement
- Ideal for measuring small system pressure
- High overpressure resistance and a high temperature and media resistance

- Preferred media: water, gases, fuels and oils
- Mechanical and plant engineering
- Energy industry
- HVAC
- Laboratory
- Environmental engineering

Sensor: ceramic

Nominal pressure gauge:

0 - 20 bar (0 - 290 psig)

Accuracy: 0.25 / 0.5%

Medium temperature:

-40 °C ... +125 °C

(-40 °F ... +257 °F)

Ambient temperature:

-40 °C ... +85 °C

(-40 °F ... +185 °F)

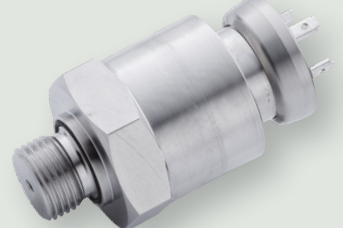
Output: 4 - 20 mA, 0 - 10V

Process connection:

½" BSP, ½" NPT

Protection: IP65, IP67, IP68

- Ex ia version*
- 99.9% aluminium oxide ceramic sensor
- Integral cable version



PRESSURE TRANSMITTERS

D-A00

- Stainless steel internal or flush diaphragm
- Relative or absolute pressure measurement
- Two chamber aluminium die cast case or stainless housing
- Turn-down 1:10
- HART® communication

- Absolute measurement of gases and steam up to 600 bar (8700 psig)
- Ideal for process, food and pharmaceutical industry
- Mechanical and plant engineering
- Chemical industry
- Paper industry
- Oil and gas industry

Sensor: stainless steel
Nominal pressure gauge:
 0 - 600 bar (0 - 8700 psig)
Accuracy: 0.1%
Medium temperature:
 -40 °C ... +125 °C
 (-40 °F ... +257 °F)
Ambient temperature:
 -40 °C ... +80 °C (without display)
 (-40 °F ... +176 °F)
 -20 °C ... +70 °C (with display)
 (-4 °F ... +158 °F)
Output: 4 - 20 mA, HART®
Process connection:
 ½", 1", 1½" BSP; ½" NPT;
 DN25/PN40, DN50/PN40,
 DN80/PN40, 2" RF, 3" RF
Protection: IP67

- Display and operating module
- Ex d version*
- High temperature version (300 °C; 572 °F)



D-B00

- Ceramic flush diaphragm
- 99.9% aluminium oxide ceramic sensor, high overpressure capability
- Relative pressure measurement
- Two chamber aluminium die cast case or stainless housing
- Turn-down 1:5
- HART® communication

- Relative measurement of gases, steam and fluids
- Mechanical and plant engineering
- Chemical industry
- Medical technology
- Food and beverage industry
- Paper industry
- Environmental engineering

Sensor: ceramic
Nominal pressure gauge:
 0 - 20 bar (0 - 290 psig)
Accuracy: 0.1 / 0.2%
Medium temperature:
 -25 °C ... +125 °C
 (-13 °F ... +257 °F)
Ambient temperature:
 -40 °C ... +70 °C (without display)
 (-40 °F ... +158 °F)
 -20 °C ... +70 °C (with display)
 (-4 °F ... +158 °F)
Output: 4 - 20 mA, HART®
Process connection:
 ½", 1", 1½" BSP; ½" NPT;
 DN25/PN40, DN50/PN40,
 DN80/PN40, 2" RF, 3" RF
Protection: IP67

- Display and operating module
- Ex ia version*
- Ex d version*



D-C00

- Welded stainless steel internal diaphragm
- Relative pressure measurement
- Extreme pressure resistance (up to 2000 bar; 29007 psig)
- Welded thinfilm sensor
- High reliability
- Easy handling

- Ideal for high pressure hydraulic applications
- Mechanical and plant engineering
- Laboratory
- Hydraulics

Sensor: stainless steel
Nominal pressure gauge:
 0 - 2000 bar (0 - 29007 psig)
Accuracy: 0.5%
Medium temperature:
 -40 °C ... +140 °C
 (-40 °F ... +284 °F)
Ambient temperature:
 -25 °C ... +85 °C
 (-13 °F ... +185 °F)
Output: 4 - 20 mA, 0 - 10V
Process connection:
 1½" BSP;
 M20 x1.5 internal thread
Protection: IP65, IP67

- Ex ia version*
- Adjustability of span and offset
- Integral cable version



DD-100

- Silicon inner diaphragm
- Relative pressure measurement
- Can be used in 2- or 3-wire system
- Wall-mounted

- For differential pressure measurement of gases and compressed air
- Mechanical and plant engineering
- HVAC

Sensor: silicon
Nominal pressure gauge:
 0 - 1 bar (0 - 14 psig)
Accuracy: 1%
Medium temperature:
 (+32 °F ... +122 °F)
 0 °C ... +50 °C
Ambient temperature:
 0 °C ... +50 °C
 (+32 °F ... +122 °F)
Output: 4 - 20 mA, 0 - 10V
Process connection:
 Ø6.6 x 11 mm
 (for flexible tubes Ø6)
 Ø4.45 x 10 mm
 (for flexible tubes Ø4)
Protection: IP54

- 5-digit LCD display



DIFFERENTIAL PRESSURE TRANSMITTERS

DD-200

- Stainless steel diaphragm
- Relative pressure measurement
- Aluminium die cast housing
- Turn-down 1:10
- HART® communication

- Differential pressure measurement of closed, pressurized tanks
 - Mechanical and plant engineering
 - Oil and gas industry
- Chemical industry
- Energy industry
- HVAC
- Food and beverage industry
- Paper industry

Sensor: stainless steel

Nominal pressure gauge:

0 - 20 bar (0 - 290 psig)

Accuracy: 0.1%

Medium temperature:

-40 °C ... +85 °C

Ambient temperature:

-40 °C ... +50 °C (without display)

(-40 °F ... +122 °F)

-20 °C ... +50 °C (with display)

(-4 °F ... +122 °F)

Output: 4 - 20 mA, HART®

Process connection:

1/4" NPT (internal)

Protection: IP67

- Display and operating module
- HASTELLOY® C-276 sensor
- EPDM sealing



DD-300

- Stainless steel internal diaphragm
- Relative pressure measurement
- Can be pressurized on both sides with fluids or gases
- Mechanical robust and reliable at dynamic pressure as well as shock and vibration
- Differential pressure wet/wet

- Compact design
- Mechanical and plant engineering
- Energy industry

Sensor: stainless steel

Nominal pressure gauge:

0 - 16 bar (0 - 232 psig)

Accuracy: 0.5%

Medium temperature:

-25 °C ... +125 °C

(-13 °F ... +257 °F)

Ambient temperature:

-25 °C ... +85 °C

(-13 °F ... +185 °F)

Output: 4 - 20 mA, 0 - 10V

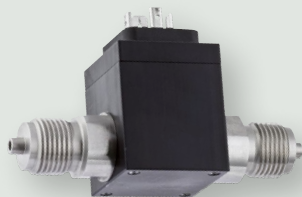
Process connection:

1/4" BSP (internal), 1/2" BSP;

7/16" UNF

Protection: IP65

- Ex ia version*



DD-400

- Two stainless steel internal diaphragm
- Relative pressure measurement
- Display and process connection
- Up to 2 switch outputs

- For differential pressure measurement of gases and fluids
- Mechanical and plant engineering
- Chemical industry
- Energy industry
- HVAC
- Food and beverage industry

Sensor: stainless steel

Nominal pressure gauge:

0 - 70 bar (0 - 1015 psig)

Accuracy: 1%

Medium temperature:

-40 °C ... +125 °C

(-40 °F ... +257 °F)

Ambient temperature:

-25 °C ... +85 °C

(-13 °F ... +185 °F)

Output: 4 - 20 mA

Process connection:

1/4", 1/2" BSP;

1/4", 1/2" NPT

Protection: IP65



DD-500

- Stainless steel diaphragm
- Relative pressure measurement
- Maximum static overpressure 400 bar (5800 psig)
- Turn-down: up to 1:100
- High accuracy
- Aluminium die cast housing
- HART® communication

- Differential pressure measurement of closed, pressurized tanks
- Oil and gas industry
- Chemical industry
- Energy industry
- Food and beverage industry
- Paper industry

Sensor: stainless steel

Nominal pressure gauge:

0 - 20 bar (0 - 290 psig)

Accuracy: 0.075%

Medium temperature:

-40 °C ... +100 °C

(-40 °F ... +212 °F)

Ambient temperature:

-40 °C ... +85 °C (without display)

(-40 °F ... +185 °F)

-20 °C ... +65 °C (with display)

(-4 °F ... +149 °F)

Output: 4 - 20 mA, HART®

Process connection:

1/4" NPT (internal), 1/2" NPT;

M20 x1.5

Protection: IP67

- Ex ia version*
- LCD display
- HASTELLOY® sensor





HUNGARIAN
PARALYMPIC
COMMITTEE

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of the Hungarian Paralympic Team*

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GENERAL DESCRIPTION

In the world of industrial metrology, monitoring and controlling the pressure of fluids and gases and the processing of the measured results are high priorities.

NIVELCO covers the needs of several industries and application areas with the wide selection of the NIPRESS family.

FEATURES OF THE NIPRESS DEVICE FAMILIES:

- Advanced pressure measuring technologies
- Relative and absolute pressure measurement
- Devices for nearly all medium
- Several accuracy classes
- Several mounting options
- Excellent overload resistance
- 2- and 3-wire systems
- Devices with lots of different electrical and process connections
- Solutions for rough conditions (aggressive medium, wide temperature range, dynamic pressure changes)
- Solutions for high hygiene requirements
- Excellent price/value ratio

MAIN CATEGORIES OF THE NIPRESS DEVICE FAMILY:

- PRESSURE SWITCHES
- PRESSURE TRANSMITTERS
- DIFFERENTIAL PRESSURE TRANSMITTERS

PRESSURE SWITCHES

- **Devices with or without display**
- **Measuring range: 0 – 600 bar (0 – 8700 psig)**

The **DK-100** and **DK-200** pressure switches electronic pressure switches can be used in hydraulic and pneumatic applications for monitoring and controlling the pressure with switching outputs. The devices are easily programmable either by the optionally available tools P-Set (PC software and programming adapter) or via the programming device P6.

Due to the simple handling as well as the variety of software features (switching points and hysteresis freely configurable, delay function, min/max-value data storage, display and analogue output signal scalable, etc.) the **DK-300**, **DK-400** and **DK-500** intelligent switches are especially suitable as a pressure switch for general plant and machine construction and for the processing industry.

MAIN APPLICATION AREAS:

mobile hydraulics, dry running protection, flow monitoring, grease monitoring, gas compressors, test and construction engineering.

PRESSURE TRANSMITTERS

- **Measurement of vacuum, overpressure and absolute pressure**
- **Measuring range: 0 – 2000 bar (0 – 29007 psig)**

The wide selection of pressure measuring technologies, housing materials (stainless steel, plastics) provides possibility to complete almost all gas and fluid pressure measurement tasks. Their design, high overload capability and the possibility to install the units in any physical position allows for a wide range of industrial applications.

MAIN APPLICATION AREAS:

HVAC, hydraulics, pneumatics, mechanical and plant engineering, energy industry, food and beverage industry, pharmaceutical industry, chemical industry, oil and gas industry.

DIFFERENTIAL PRESSURE TRANSMITTERS

- **For differential pressure measurement**
- **Measuring range: 0 – 70 bar (0 – 1015 psig)**

Thanks to different sensor technologies combined with compact aluminium die-cast cases or plastic housings, our differential pressure transmitters may be used for numerous fluids and gases, e. g. for monitoring ventilation ducts, filters and fans in HVAC areas as well as for level measurement in closed pressurized tanks.

MAIN APPLICATION AREAS:

HVAC, mechanical and plant engineering, oil and gas industry, chemical industry, energy industry, food and beverage industry.