Кориолисовые массовые расходомеры Promass 80H, 80P

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231 Ангарск (3955)60-70-56 Архангельск (8182)63-90-72 Астрахань (8512)99-46-04 Барнаул (3852)73-04-60 Белгород (4722)40-23-64 Благовещенск (4162)22-76-07 Брянск (4832)59-03-52 Владивосток (423)249-28-31 Владикавказ (8672)28-90-48 Владимир (4922)49-43-18 Волгоград (844)278-03-48 Вологда (8172)26-41-59 Воронеж (473)204-51-73 Екатеринбург (343)384-55-89 Иваново (4932)77-34-06 Ижевск (3412)26-03-58 Иркутск (395)279-98-46 Казань (843)206-01-48 Калининград (4012)72-03-81 Калуга (4842)92-23-67 Кемерово (3842)65-04-62 Киров (8332)68-02-04 Коломна (4966)23-41-49 Кострома (4942)77-07-48 Краснодар (861)203-40-90 Красноярск (391)204-63-61 Курск (4712)77-13-04 Курган (3522)50-90-47 Липецк (4742)52-20-81 Магнитогорск (3519)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-64-93 Набережные Челны (8552)20-53-41 Нижний Новгород (831)429-08-12 Новокузнецк (3843)20-46-81 Ноябрьск (3496)41-32-12 Новосибирск (383)227-86-73 Омск (3812)21-46-40 Орел (4862)44-53-42 Оренбург (3532)37-68-04 Пенза (8412)22-31-16 Петрозаводск (8142)55-98-37 Псков (8112)59-10-37 Пермь (342)205-81-47

Ростов-на-Дону (863) 308-18-15 Рязань (4912) 46-61-64 Самара (846) 206-03-16 Санкт-Петербург (812) 309-46-40 Саратов (845) 249-38-78 Севастополь (8692) 22-31-93 Саранск (8342) 22-96-24 Симферополь (3652) 67-13-56 Смоленск (4812) 29-41-54 Сочи (862) 225-72-31 Ставрополь (8652) 20-65-13 Сургут (3462) 77-98-35 Сыктывкар (8212) 25-95-17 Тамбов (4752) 50-40-97 Тверь (4822) 63-31-35 Тольятти (8482)63-91-07 Томск (3822)98-41-53 Тула (4872)33-79-87 Тюмень (3452)66-21-18 Ульяновск (8422)24-23-59 Улан-Удэ (3012)59-97-51 Уфа (347)229-48-12 Хабаровск (4212)92-98-04 Чебоксары (8352)28-53-07 Челябинск (351)202-03-61 Череповец (8202)49-02-64 Чита (3022)38-34-83 Якутск (4112)23-90-97 Ярославль (4852)69-52-93

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Promass 80H



Benefits:

- Maximum safety for chemically aggressive fluids corrosion-resistant wetted parts
- Fewer process measuring points multivariable measurement (flow, density, temperature)
- Space-saving installation no in/outlet run needs
- Cost-effective dedicated design for standard applications
- Safe operation display provides easy readable process information
- Fully industry compliant IEC/EN/NAMUR

Specs at a glance

- Max. measurement error Mass flow (liquid): ±0.15 % Volume flow (liquid): ±0.15 % Mass flow (gas, Tantalum only): ±0.5 % Density (liquid): ±0.0005 g/cm³
- Measuring range 0 to 70 000 kg/h (0 to 2570 lb/min)
- **Medium temperature range** Tantalum: -50 to +150 °C (-58 to +302 °F) Ziconium: -50 to +200 °C (-58 to +392 °F)
- Max. process pressure PN 40, Class 300, 20K
- Wetted materials Measuring tube: Tantalum 2.5W; 702 (UNS R60702) Connection: Tantalum; 702 (UNS R60702)

Field of application: The chemically resistant single-tube design of the Promass H provides highly accurate measurement of liquids and gases in applications requiring highest corrosion resistance. Combined with the proven Promass 80 transmitter with push buttons, Promass 80H offers a cost effective solution for these kind of applications.

Features and specifications

Liquids

Measuring principle

Coriolis

Product headline

The chemically resistant single-tube flowmeter with a compact or remote transmitter. Highly accurate measurement of liquids and gases in applications requiring highest corrosion resistance.

Sensor features

Maximum safety for chemically aggressive fluids – corrosionresistant wetted parts. Fewer process measuring points – multivariable measurement (flow, density, temperature). Spacesaving installation – no in/outlet run needs. Measuring tube made of Tantalum, Zirconium. Nominal diameter: DN 8 to 50 (3/8 to 2").

Transmitter features

Cost-effective – dedicated design for standard applications. Safe operation – display provides easy readable process information. Fully industry compliant – IEC/EN/NAMUR. 2-line backlit display with push buttons. Device in compact or remote version.

Nominal diameter range

DN 8 to 50 (% to 2")

Wetted materials

Measuring tube: Tantalum 2.5W; 702 (UNS R60702)

Connection: Tantalum; 702 (UNS R60702)

Measured variables

Mass flow, density, temperature, volume flow, corrected volume flow, reference density

Max. measurement error

Mass flow (liquid): ± 0.15 % Volume flow (liquid): ± 0.15 %

Mass flow (gas, Tantalum only): ±0.5 %

Density (liquid): ± 0.0005 g/cm³

Measuring range

0 to 70 000 kg/h (0 to 2570 lb/min)

Max. process pressure

PN 40, Class 300, 20K

Medium temperature range

Tantalum: $-50 \text{ to } +150 \,^{\circ}\text{C} \, (-58 \text{ to } +302 \,^{\circ}\text{F})$ Ziconium: $-50 \text{ to } +200 \,^{\circ}\text{C} \, (-58 \text{ to } +392 \,^{\circ}\text{F})$

Ambient temperature range

Standard: $-20 \text{ to } +60 \,^{\circ}\text{C} \ (-4 \text{ to } +140 \,^{\circ}\text{F})$ Option: $-40 \text{ to } +60 \,^{\circ}\text{C} \ (-40 \text{ to } +140 \,^{\circ}\text{F})$

Sensor housing material

1.4301 (304), corrosion resistant

Transmitter housing material

Powder-coated die-cast aluminium 1.4301 (304), sheet CF3M (316L), cast

Degree of protection

IP67, type 4X enclosure. Remote transmitter: IP67, type 4X enclosure

Display/Operation

2-line backlit display with push buttons Configuration via local display and operating tools possible

Outputs

3 outputs:

0-20 mA (active)/4-20 mA (active/passive)

Pulse/frequency/switch output (passive)

Inputs

Status input

Digital communication

HART

PROFIBUS PA

Power supply

DC 16 to 62 V

AC 85 to 260 V (45 to 65 Hz)

AC 20 to 55 V (45 to 65 Hz)

Hazardous area approvals

ATEX, IECEx, FM, CSA, NEPSI

Other approvals and certificates

3.1 material, calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025), NAMUR, SIL

PED, CRN

Product safety

CE, C-tick, EAC marking

Functional safety

Functional safety according to IEC 61508, applicable in safety-relevant applications in accordance with IEC 61511

Metrological approvals and certificates

Calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025), NAMUR

Pressure approvals and certificates

PED, CRN

Material certificates

3.1 material

Gas

Measuring principle

Coriolis

Product headline

The chemically resistant single-tube flowmeter with a compact or remote transmitter. Highly accurate measurement of liquids and gases in applications requiring highest corrosion resistance.

Sensor features

Maximum safety for chemically aggressive fluids – corrosionresistant wetted parts. Fewer process measuring points – multivariable measurement (flow, density, temperature). Spacesaving installation – no in/outlet run needs. Measuring tube made of Tantalum, Zirconium. Nominal diameter: DN 8 to 50 (3/8 to 2").

Transmitter features

Cost-effective – dedicated design for standard applications. Safe operation – display provides easy readable process information. Fully industry compliant – IEC/EN/NAMUR. 2-line backlit display with push buttons. Device in compact or remote version.

Nominal diameter range

DN 8 to 50 (% to 2")

Wetted materials

Measuring tube: Tantalum 2.5W; 702 (UNS R60702)

Connection: Tantalum; 702 (UNS R60702)

Measured variables

Mass flow, density, temperature, volume flow, corrected volume flow, reference density

Max. measurement error

Mass flow (liquid): ±0.15 % Volume flow (liquid): ±0.15 %

Mass flow (gas, Tantalum only): ±0.5 %

Density (liquid): ± 0.0005 g/cm³

Measuring range

0 to 70 000 kg/h (0 to 2570 lb/min)

Max. process pressure

PN 40, Class 300, 20K

Medium temperature range

Tantalum: $-50 \text{ to } +150 \,^{\circ}\text{C} \ (-58 \text{ to } +302 \,^{\circ}\text{F})$ Ziconium: $-50 \text{ to } +200 \,^{\circ}\text{C} \ (-58 \text{ to } +392 \,^{\circ}\text{F})$

Ambient temperature range

Standard: $-20 \text{ to } +60 \,^{\circ}\text{C} (-4 \text{ to } +140 \,^{\circ}\text{F})$ Option: $-40 \text{ to } +60 \,^{\circ}\text{C} (-40 \text{ to } +140 \,^{\circ}\text{F})$

Sensor housing material

1.4301 (304), corrosion resistant

Transmitter housing material

Powder-coated die-cast aluminium 1.4301 (304), sheet CF3M (316L), cast

Degree of protection

IP67, type 4X enclosure. Remote transmitter: IP67, type 4X enclosure

Display/Operation

2-line backlit display with push buttons Configuration via local display and operating tools possible

Outputs

3 outputs:

0-20 mA (active)/4-20 mA (active/passive)

Pulse/frequency/switch output (passive)

Inputs

Status input

Digital communication

HART

PROFIBUS PA

Power supply

DC 16 to 62 V

AC 85 to 260 V (45 to 65 Hz)

AC 20 to 55 V (45 to 65 Hz)

Hazardous area approvals

ATEX, IECEx, FM, CSA, NEPSI

Other approvals and certificates

 $3.1\ material$, calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025), NAMUR, SIL

PED, CRN

Product safety

CE, C-tick, EAC marking

Functional safety

Functional safety according to IEC 61508, applicable in safety-relevant applications in accordance with IEC 61511

Metrological approvals and certificates

Calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025), NAMUR

Pressure approvals and certificates

PED, CRN

Material certificates

3.1 material

Density

Measuring principle

Coriolis

Characteristic / Application

Balanced single-tube system, "Fit-and-Forget"

installation

Design:

Easy to clean, hygienic, careful handling of the medium

- chemically resistant material

Ambient temperature

-20...+65°C

(-4...+140°F)

Density

Process temperature

-50...+200°C (-58...+392°F)

Process pressure

PN 40

Cl 150...300

JIS 10...20K

Wetted parts

Zirconium 702/R60702

Output

4...20 mA

Pulse/Frequency

Status

Certificates / Approvals

ATEX

FΜ

CSA

Density/Concentration

Measuring principle

Coriolis

Product headline

The chemically resistant single-tube flowmeter with a compact or remote transmitter. Highly accurate measurement of liquids and gases in applications requiring highest corrosion resistance.

Sensor features

Maximum safety for chemically aggressive fluids – corrosionresistant wetted parts. Fewer process measuring points – multivariable measurement (flow, density, temperature). Spacesaving installation – no in/outlet run needs. Measuring tube made of Tantalum, Zirconium. Nominal diameter: DN 8 to 50 (3/8 to 2").

Transmitter features

Cost-effective – dedicated design for standard applications. Safe operation – display provides easy readable process information. Fully industry compliant – IEC/EN/NAMUR. 2-line backlit display with push buttons. Device in compact or remote version.

Nominal diameter range

DN 8 to 50 (3/8 to 2")

Wetted materials

Measuring tube: Tantalum 2.5W; 702 (UNS R60702)

Connection: Tantalum; 702 (UNS R60702)

Measured variables

Mass flow, density, temperature, volume flow, corrected volume flow, reference density

Max. measurement error

Mass flow (liquid): ±0.15 % Volume flow (liquid): ±0.15 %

Mass flow (gas, Tantalum only): ±0.5 %

Density (liquid): ± 0.0005 g/cm³

Measuring range

0 to 70 000 kg/h (0 to 2570 lb/min)

Max. process pressure

PN 40, Class 300, 20K

Medium temperature range

Tantalum: $-50 \text{ to } +150 \,^{\circ}\text{C} \, (-58 \text{ to } +302 \,^{\circ}\text{F})$ Ziconium: $-50 \text{ to } +200 \,^{\circ}\text{C} \, (-58 \text{ to } +392 \,^{\circ}\text{F})$

Ambient temperature range

Standard: $-20 \text{ to } +60 \,^{\circ}\text{C} (-4 \text{ to } +140 \,^{\circ}\text{F})$ Option: $-40 \text{ to } +60 \,^{\circ}\text{C} (-40 \text{ to } +140 \,^{\circ}\text{F})$

Sensor housing material

1.4301 (304), corrosion resistant

Transmitter housing material

Powder-coated die-cast aluminium 1.4301 (304), sheet CF3M (316L), cast

Degree of protection

IP67, type 4X enclosure. Remote transmitter: IP67, type 4X enclosure

Display/Operation

2-line backlit display with push buttons Configuration via local display and operating tools possible

Outputs

3 outputs:

0-20 mA (active)/4-20 mA (active/passive)

Pulse/frequency/switch output (passive)

Inputs

Status input

Digital communication

HART

PROFIBUS PA

Power supply

DC 16 to 62 V

AC 85 to 260 V (45 to 65 Hz)

AC 20 to 55 V (45 to 65 Hz)

Hazardous area approvals

ATEX, IECEx, FM, CSA, NEPSI

Product safety

CE, C-tick, EAC marking

Functional safety

Functional safety according to IEC 61508, applicable in safety-relevant applications in accordance with IEC 61511

Metrological approvals and certificates

Calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025), NAMUR

Pressure approvals and certificates

PED, CRN

Material certificates

3.1 material

Promass 80P



Benefits:

- Highest process quality fully compliant to industry requirements
- Fewer process measuring points multivariable measurement (flow, density, temperature)
- Space-saving installation no in/outlet run needs
- Cost-effective dedicated design for standard applications
- Safe operation display provides easy readable process information
- Fully industry compliant IEC/EN/NAMUR

Specs at a glance

- Max. measurement error Mass flow (liquid): ±0.15 % Volume flow (liquid): ±0.15 % Mass flow (gas): ±0.5 % Density (liquid): ±0.0005 g/cm³
- Measuring range 0 to 70 000 kg/h (0 to 2570 lb/min)
- **Medium temperature range** -50 to +200 °C (-58 to +392 °F)
- Max. process pressure PN 63, Class 300, 40K
- Wetted materials Measuring tube: 1.4435 (316L) Connection: 1.4435 (316L); 1.4404 (316/316L)

Field of application: Promass P offers the enhanced performance of a bent tube meter and the drainability of a straight tube meter without any compromise, between accuracy and drainability. Combined with the proven Promass 80 transmitter with push buttons, Promass 80P offers a cost effective solution for applications in sterile environments in the life sciences industry.

Features and specifications

Liquids

Measuring principle

Coriolis

Product headline

The specialist for life sciences with a compact or remote transmitter. Dedicated for applications under sterile conditions in the life sciences industry.

Sensor features

Highest process quality – fully compliant to industry requirements. Fewer process measuring points – multivariable measurement (flow, density, temperature). Space-saving installation – no in/outlet run needs. ASME BPE, 3-A and EHEDG conform & low delta ferrite. Electropolished measuring tube in 1.4435 (316L).

Transmitter features

Cost-effective – dedicated design for standard applications. Safe operation – display provides easy readable process information. Fully industry compliant – IEC/EN/NAMUR. 2-line backlit display with push buttons. Device in compact or remote version.

Nominal diameter range

DN 8 to 50 (% to 2")

Wetted materials

Measuring tube: 1.4435 (316L)

Connection: 1.4435 (316L); 1.4404 (316/316L)

Measured variables

Mass flow, density, temperature, volume flow, corrected volume flow, reference density

Max. measurement error

Mass flow (liquid): ±0.15 % Volume flow (liquid): ±0.15 %

Mass flow (gas): ±0.5 %

Density (liquid): ± 0.0005 g/cm³

Measuring range

0 to 70 000 kg/h (0 to 2570 lb/min)

Max. process pressure

PN 63, Class 300, 40K

Medium temperature range

 $-50 \text{ to } +200 ^{\circ}\text{C} (-58 \text{ to } +392 ^{\circ}\text{F})$

Ambient temperature range

Standard: $-20 \text{ to } +60 \,^{\circ}\text{C} (-4 \text{ to } +140 \,^{\circ}\text{F})$ Option: $-40 \text{ to } +60 \,^{\circ}\text{C} (-40 \text{ to } +140 \,^{\circ}\text{F})$

Sensor housing material

1.4301 (304), corrosion resistant

Transmitter housing material

Powder-coated die-cast aluminium 1.4301 (304), sheet CF3M (316L), cast

Degree of protection

IP67, type 4X enclosure. Remote transmitter: IP67, type 4X enclosure

Display/Operation

2-line backlit display with push buttons Configuration via local display and operating tools possible

Outputs

3 outputs:

0-20 mA (active)/4-20 mA (active/passive)

Pulse/frequency/switch output (passive)

Inputs

Status input

Digital communication

HART

PROFIBUS PA

Power supply

DC 16 to 62 V AC 85 to 260 V (45 to 65 Hz) AC 20 to 55 V (45 to 65 Hz)

Hazardous area approvals

ATEX, IECEx, FM, CSA, NEPSI

Other approvals and certificates

3.1 material, calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025), NAMUR, SIL

PED, CRN

3-A, FDA, ASME BPE, ISPE

Product safety

CE, C-tick, EAC marking

Functional safety

Functional safety according to IEC 61508, applicable in safety-relevant applications in accordance with IEC 61511

Metrological approvals and certificates

Calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025), NAMUR

Pressure approvals and certificates

PED, CRN

Material certificates

3.1 material

Hygienic approvals and certificates

3-A, FDA, ASME BPE, ISPE

Gas

Measuring principle

Coriolis

Product headline

The specialist for life sciences with a compact or remote transmitter. Dedicated for applications under sterile conditions in the life sciences industry.

Sensor features

Highest process quality – fully compliant to industry requirements. Fewer process measuring points – multivariable measurement (flow, density, temperature). Space-saving installation – no in/outlet run needs. ASME BPE, 3-A and EHEDG conform & low delta ferrite. Electropolished measuring tube in 1.4435 (316L).

Transmitter features

Cost-effective – dedicated design for standard applications. Safe operation – display provides easy readable process information. Fully industry compliant – IEC/EN/NAMUR. 2-line backlit display with push buttons. Device in compact or remote version.

Nominal diameter range

DN 8 to 50 (% to 2")

Wetted materials

Measuring tube: 1.4435 (316L)

Connection: 1.4435 (316L); 1.4404 (316/316L)

Measured variables

Mass flow, density, temperature, volume flow, corrected volume flow, reference density

Max. measurement error

Mass flow (liquid): ±0.15 % Volume flow (liquid): ±0.15 %

Mass flow (gas): ±0.5 %

Density (liquid): ± 0.0005 g/cm³

Measuring range

0 to 70 000 kg/h (0 to 2570 lb/min)

Max. process pressure

PN 63, Class 300, 40K

Medium temperature range

 $-50 \text{ to } +200 ^{\circ}\text{C} (-58 \text{ to } +392 ^{\circ}\text{F})$

Ambient temperature range

Standard: $-20 \text{ to } +60 \,^{\circ}\text{C} (-4 \text{ to } +140 \,^{\circ}\text{F})$ Option: $-40 \text{ to } +60 \,^{\circ}\text{C} (-40 \text{ to } +140 \,^{\circ}\text{F})$

Sensor housing material

1.4301 (304), corrosion resistant

Transmitter housing material

Powder-coated die-cast aluminium 1.4301 (304), sheet CF3M (316L), cast

Degree of protection

IP67, type 4X enclosure. Remote transmitter: IP67, type 4X enclosure

Display/Operation

2-line backlit display with push buttons Configuration via local display and operating tools possible

Outputs

3 outputs:

0-20 mA (active)/4-20 mA (active/passive)

Pulse/frequency/switch output (passive)

Inputs

Status input

Digital communication

HART

PROFIBUS PA

Power supply

DC 16 to 62 V AC 85 to 260 V (45 to 65 Hz) AC 20 to 55 V (45 to 65 Hz)

Hazardous area approvals

ATEX, IECEx, FM, CSA, NEPSI

Other approvals and certificates

3.1 material, calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025), NAMUR, SIL

PED, CRN

3-A, FDA, ASME BPE, ISPE

Product safety

CE, C-tick, EAC marking

Functional safety

Functional safety according to IEC 61508, applicable in safety-relevant applications in accordance with IEC 61511

Metrological approvals and certificates

Calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025), NAMUR

Pressure approvals and certificates

PED, CRN

Material certificates

3.1 material

Hygienic approvals and certificates

3-A, FDA, ASME BPE, ISPE

Density

Measuring principle

Coriolis

Density

Characteristic / Application

Coriolis mass flowmeter complying with ASME BPE, ISPE, FDA, 3-A

Ambient temperature

-20...+65°C

 $(-4...+140^{\circ}F)$

Process temperature

-50...+200°C

(-58...+392°F)

Process pressure

PN 16...40

Cl 150...300

JIS 20...40K

Wetted parts

316L/1.4435

Output

4...20mA

Pulse/Frequency

Status

Certificates / Approvals

ATEX

FΜ

CSA IECEX TIIS NEPSI

Density/Concentration

Measuring principle

Coriolis

Product headline

The specialist for life sciences with a compact or remote transmitter. Dedicated for applications under sterile conditions in the life sciences industry.

Sensor features

Highest process quality – fully compliant to industry requirements. Fewer process measuring points – multivariable measurement (flow, density, temperature). Space-saving installation – no in/outlet run needs. ASME BPE, 3-A and EHEDG conform & low delta ferrite. Electropolished measuring tube in 1.4435 (316L).

Transmitter features

Cost-effective – dedicated design for standard applications. Safe operation – display provides easy readable process information. Fully industry compliant – IEC/EN/NAMUR. 2-line backlit display with push buttons. Device in compact or remote version.

Nominal diameter range

DN 8 to 50 (% to 2")

Wetted materials

Measuring tube: 1.4435 (316L)

Connection: 1.4435 (316L); 1.4404 (316/316L)

Measured variables

Mass flow, density, temperature, volume flow, corrected volume flow, reference density

Max. measurement error

Mass flow (liquid): ± 0.15 % Volume flow (liquid): ± 0.15 %

Mass flow (gas): ±0.5 %

Density (liquid): ± 0.0005 g/cm³

Measuring range

0 to 70 000 kg/h (0 to 2570 lb/min)

Max. process pressure

PN 63, Class 300, 40K

Medium temperature range

 $-50 \text{ to } +200 ^{\circ}\text{C} (-58 \text{ to } +392 ^{\circ}\text{F})$

Ambient temperature range

Standard: $-20 \text{ to } +60 \,^{\circ}\text{C} \ (-4 \text{ to } +140 \,^{\circ}\text{F})$ Option: $-40 \text{ to } +60 \,^{\circ}\text{C} \ (-40 \text{ to } +140 \,^{\circ}\text{F})$

Sensor housing material

1.4301 (304), corrosion resistant

Transmitter housing material

Powder-coated die-cast aluminium 1.4301 (304), sheet CF3M (316L), cast

Degree of protection

IP67, type 4X enclosure. Remote transmitter: IP67, type 4X enclosure

Display/Operation

2-line backlit display with push buttons Configuration via local display and operating tools possible

Outputs

3 outputs:

0-20 mA (active)/4-20 mA (active/passive)

Pulse/frequency/switch output (passive)

Inputs

Status input

Digital communication

HART

PROFIBUS PA

Power supply

DC 16 to 62 V

AC 85 to 260 V (45 to 65 Hz)

AC 20 to 55 V (45 to 65 Hz)

Hazardous area approvals

ATEX, IECEx, FM, CSA, NEPSI

Product safety

CE, C-tick, EAC marking

Functional safety

Functional safety according to IEC 61508, applicable in safety-relevant applications in accordance with IEC 61511

Metrological approvals and certificates

Calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025), NAMUR

Pressure approvals and certificates

PED, CRN

Material certificates

3.1 material

Hygienic approvals and certificates

3-A, FDA, ASME BPE, ISPE

По вопросам продаж и поддержки обращайтесь:

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