

Automation made easy for you

Accurate measurement
Precise control
Reliable actuation



General Information

The best choice

Corrosion and chemical resistant products, systems and complete solutions from GF Piping Systems

+ Georg Fischer

Georg Fischer focuses on three core businesses: GF Piping Systems, GF Automotive and GF AgieCharmilles. The industrial corporation founded in 1802 headquarters in Switzerland and operates approximately 130 companies with more than 14 000 employees in 30 countries.

GF Piping Systems is a leading supplier of plastic and metal piping systems with global market presence. For the treatment and distribution of water and chemicals, as well as the safe transport of liquids and gases in industry, we have the corresponding jointing technologies, fittings, valves, automation products and pipes in our portfolio.



GF Piping Systems headquarters in Schaffhausen, Switzerland.

+ Our market segments

Being a strong implementation partner GF Piping Systems supports its customers in every phase of the project. No matter which processes and applications are planned in the following market segments:

- Building Technology
- Chemical Process Industry
- Energy
- Food & Beverage / Cooling
- Microelectronics
- Marine
- Water & Gas Utilities
- Water Treatment

+ Global presence

Our global presence ensures customer proximity worldwide. Sales companies in over 25 countries and representatives in another 80 countries provide customer service around the clock. With 50 production sites in Europe, Asia and the USA we are close to our customers and comply with local standards. A modern logistics concept with local distribution centers ensures highest product availability and short delivery times. GF Piping Systems specialists are always close by.

+ Complete solutions provider

Our extensive product range represents a unique form of product and competence bundling. With over 60 000 products, allied with a broad range of services, we offer individual and comprehensive system solutions for a variety of industrial applications. Our automation offering perfectly fits into our complete system approach and is thus an integral part of our portfolio. Having the profitability of the projects in focus, we optimize processes and applications that are integrated into the whole system. Continually setting standards in the market, we directly provide our customers with technological advantages. Due to our worldwide network customers benefit directly from our 50 years+ experience in plastics.

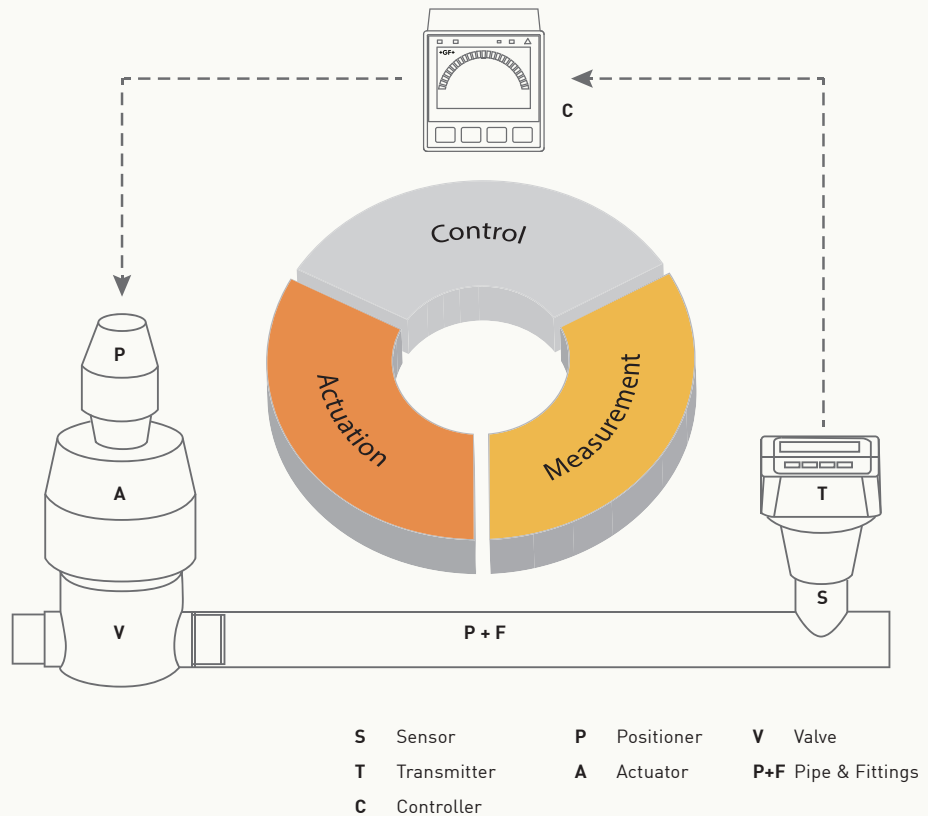
From start to finish, we support our customers as a competent, reliable and experienced partner, actively contributing the know-how of an industrial company that has been successful in the market for over 200 years.

Automation made easy

Our automation loop consists of three elements: measurement, control and actuation. Measurement encompasses a wide range of measurement technologies and parameters. Most of these products are available in plastic and are offered with dedicated fittings, which integrate our sensors perfectly into your piping system. Control comprises various control functionalities (from simple relays to PID controllers) and all major communication technologies. Actuation includes pneumatic, electric and magnetic actuators, which can be seamlessly combined with all kinds of valves and accessories.

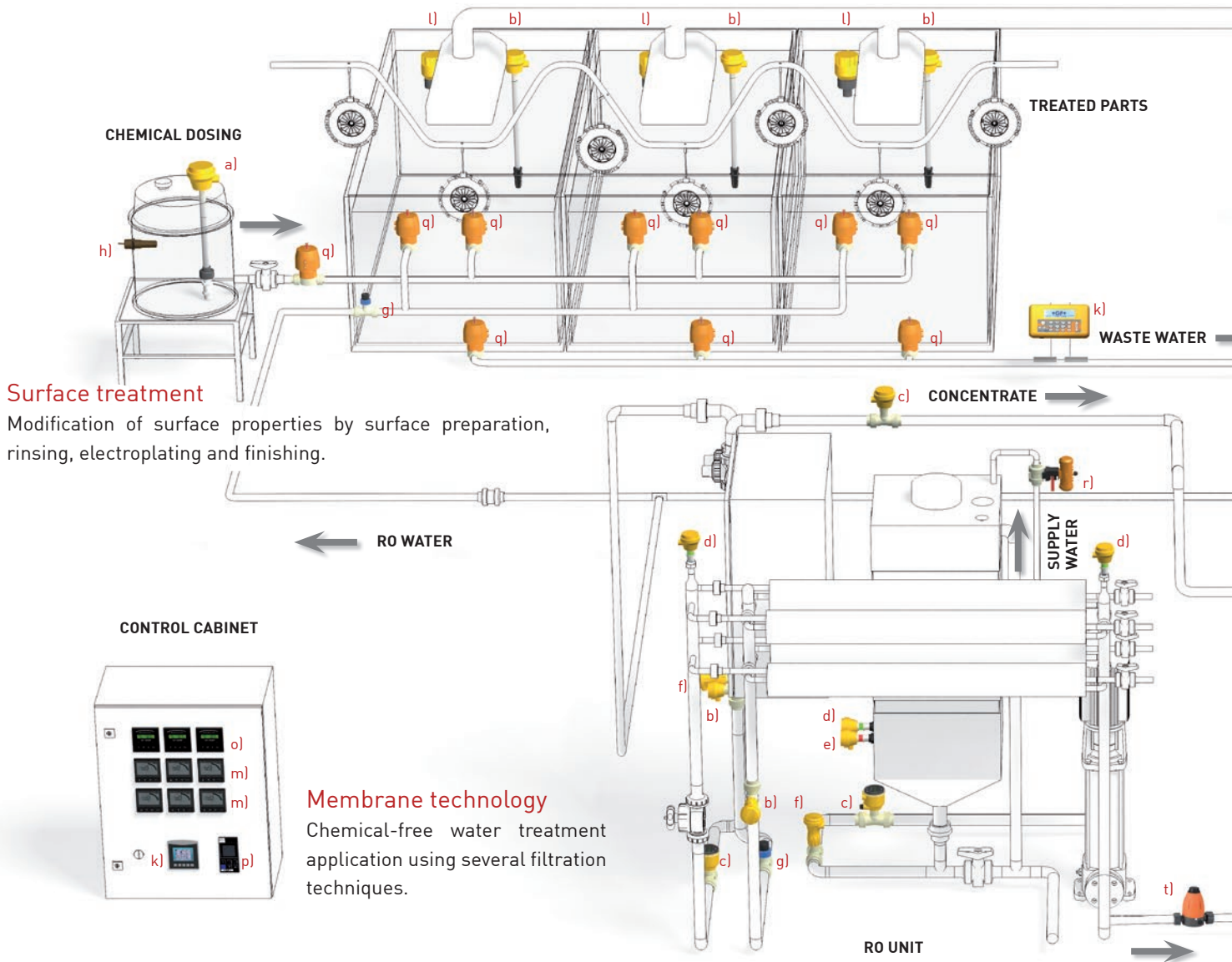
The all-in-one solution for your automation needs

- **Easy-to-combine**
Flexible combination and upgrade
- **Easy-to-install**
Seamless integration
- **Easy-to-connect**
State-of-the-art communication technology
- **Easy-to-set-up**
Plug-and-play design
- **Easy-to-operate**
Intuitive menu structure
- **Easy-to-maintain**
Wide range of accessories



Industrial automation made easy

We have a comprehensive automation offering for your industrial applications

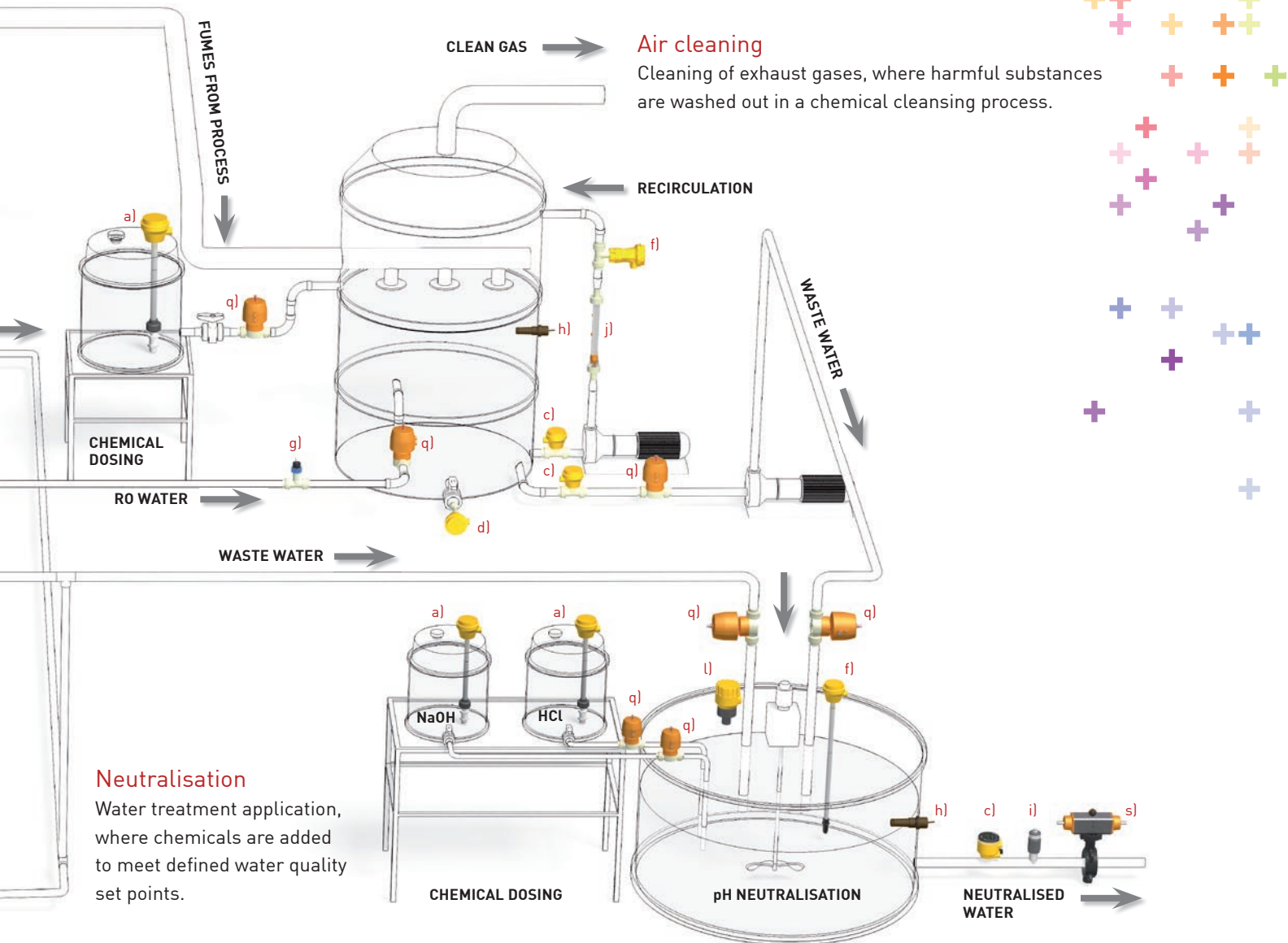


Measurement

- a) Level Sensor type 2250
- b) Conductivity Sensor using 2850 Sensor Electronics
- c) Electromagnetic flow sensor type 2551
- d) Pressure sensor type 2450
- e) Temperature sensor type 2350
- f) pH-sensor type 2724
- g) Paddlewheel Flow sensor type 2536
- h) Limit Switch
- i) ph / ORP Wet-Tap unit type 3719
- j) Variable area flow meter type 350
- k) Portaflow Ultrasonic flowmeter type 330 / 220
- l) Ultrasonic Level sensor

+ Main benefits

- Safety** = Completely controlled and regulated processes
- Simplicity** = Easy to install, handle and operate
- Efficiency** = Economical and durable system solutions from a single source
- Economy** = Optimized cost of ownership due to low-maintenance systems



Control

- m) Multi-Parameter transmitter type 9900
- n) Customer PLC
- o) Multi-Parameter/ Multi-Channel Controller type 8900
- p) PID Controller

Actuation

- q) Diaphragm valve, pneumatic, type DIASTAR Ten
- r) Ball valve, pneumatic type 230
- s) Butterfly valve, pneumatic type 240
- t) Pressure retaining valve type 586

The rendering above shows an exemplary selection of industrial applications, where our automation offering can be used.

Measurement

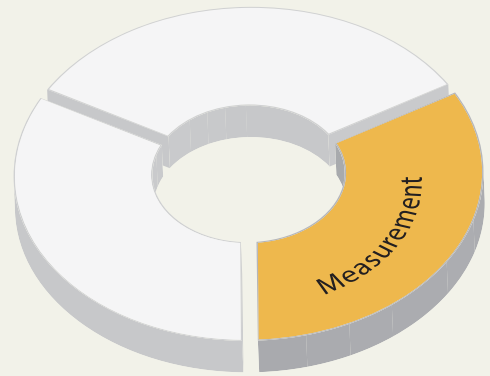
Accurate measurement is the basis for reliable process control



Our measurement offering will cover your needs: flow, pH, conductivity, level, temperature and various water quality parameters. Corresponding to our piping systems, most sensors are available in plastic and are therefore highly resistant to chemicals. Our plug-and-play measurement products are self-explanatory, easy to maintain and are offered with suitable installation fittings.

Measurement products

An overview of the key products



Flow Sensors and Instruments



Rotor-X Paddlewheel Flow Sensor type 515

- non-powered
- 0.3-6 m/s (1 to 20 ft/s)
- DN15-DN900 (½ to 36 in.)
- PP 12.5 bar @ 20 °C (180 psi @ 68 °F)
- PVDF 14 bar @ 20 °C (203 psi @ 68 °F)
- 19.7 Hz per m/s nominal (6 Hz per ft/s nominal)



Rotor-X Paddlewheel Flow Sensor type 2536

- powered
- 0.1-6 m/s (0.3 to 20 ft/s)
- DN15-DN900 (½ to 36 in.)
- PP 12.5 bar @ 20 °C (180 psi @ 68 °F)
- PVDF 14 bar @ 20 °C (203 psi @ 68 °F)
- 49 Hz per m/s nominal (15 Hz per ft/s nominal)



Paddlewheel Flow Sensor type 2537

- 0.1-6 m/s (0.3 to 20 ft/s)
- DN15-DN200 (½ to 8 in.)
- PP 12.5 bar @ 20 °C (181 psi @ 68 °F)
- PVDF 14 bar @ 20 °C (203 psi @ 68 °F)
- 4-20 mA, digital (S³L), flow switch or pulse outputs (based on part number)



Stainless Steel Paddlewheel Flow Sensor - type 2540

- 0.1-6 m/s (0.3 to 20 ft/s)
- DN40-DN900 (1½ to 36 in.)
- 316 Stainless Steel
- 17 bar @ 100 °C (250 psi @ 212 °F)
- 49 Hz per m/s nominal (15 Hz per ft/s nominal)
- Open Collector output



Magmeter (blind or display) type 2551

- 0.05-10 m/s (0.15 to 33 ft/s)
- DN15-DN900 (½ to 36 in.)
- 10.3 bar @ 25 °C (150 psi @ 77 °F)
- 4-20 mA, or frequency/ digital (S³L) outputs
- Optional relay outputs



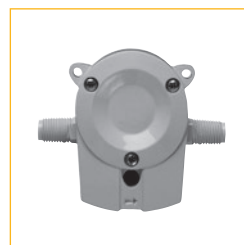
Metal Magmeter type 2552

- 0.05-10 m/s (0.15 to 33 ft/s)
- DN50-DN2550 (2 to 102 in.)
- 316 Stainless Steel & PVDF
- 20.7 bar @ 25 °C (300 psi @ 77 °F)
- 4-20 mA, frequency/ digital (S³L)
- Hot-tap using ball or gate valves



Turbine Flow Sensor type 2100

- 0.38 to 38 lpm (0.10 to 10 gpm)
- DN15 (½ in.)
- PVDF
- 16 bar @ 20 °C (232 psi @ 68 °F)
- Open Collector output
- Use with End Fitting: 3-2100-31 to 3-2100-38



Micro-Flow Rotor Sensor type 2000

- 0.11-12.11 lpm (0.03-3.2 gpm)
- ¼ in. NPT or ISO 7/1-R1/4 threads
- Polyphenylene Sulphide and PEEK
- 5.5 bar @ 0 ° to 80 °C (80 psi @ 32 °F to 176 °F)
- Open Collector output
- Standard cable 7.6 m (25 ft)



Mini-Flow Rotor Sensor type 2507

- 400-12 000 mL/m (0.1 to 3.2 U.S. gpm)
- G ¼ in. ports, ¼ in. NPT pipe adapters
- PVDF
- 5.5 bar @ 24 °C (80 psi @ 75 °F)
- Open Collector output
- Standard cable 7.6 m (25 ft)



Metalex Paddlewheel Flow Sensor type 525

- 0.5-6 m/s (1.6-20 ft/s)
- DN15-DN300 (½-12 in.)
- 316 Stainless Steel
- 103 bar (1500 psi @ safety factor 1.5) @149 °C (300 °F)
- 39 Hz per m/s nominal (12 Hz per ft/s nominal)

Easy to install

Flow sensors and instruments



**SmartPro transmitter
type 9900**

- Multi-Parameter input selection
- Large auto-sensing backlit display
- "Dial-type" digital bar graph
- Optional field upgradable relays
- Selectable error mode for current outputs, 3.6 mA or 22 mA
- Optional Relay, Direct Conductivity/Resistivity, HART modules 4 to 20 mA Output Module are available



**Flow Integral Mount
type 9900**

- Local display for sensor mounted instruments
- Provides 4-20 mA output
- "At a glance" visibility
- "Dial-type" digital bar graph
- NEMA 4X/IP65



**ProPoint Sensor-Powered
Flow Monitor - type 5090**

- Displays GPM
- No power required
- Single input
- Panel mount
- Analogue dial for indication
- Use with 515 flow sensor



**Battery Powered Flow Totaliser
type 8150**

- Displays GPS, GPM, GPH, GPD, LPS, LPM, LPH, LPD
- Battery powered
- Single input
- Panel or field mount
- 3 totalisers, auto calibration
- Use with 515 or 525 flow sensors



**Variable Area Flow Meters
type 335/350, SK50-73**

- Taper tubes in PVC transparent, PA, PSU, PVDF
- Union connection with PVC (std)
- DN10-DN65 (1/8"-3 1/2")
- PN10
- Optional switch feedback
- Special scales on request



**Flow Wet-Tap Valve
type 3519**

- DN15-DN900 (1/2 to 36 in.)
- PVC
- 7 bar @ 20 °C (100 psi max @ 68 °F)
- Use with Wet-Tap Paddlewheel Flow Sensors Type 515 and 2536



**Portaflow portable Ultrasonic
flowmeter - type 330/220**

- 0.1 m/s - 20 m/s
- d13-d2000
- Battery powered, AC 110-240 V
- Output: 0/4 to 20 mA, RS 232, USB, pulse
- Data logger (Type 330)
- Transit time measurement



**Ultraflow Wall-mount Ultrasonic
flowmeter - type 3000/4000**

- 0.1 m/s - 20 m/s
- d13-d2000
- DC 24 V or AC 86-240 V
- Output 0/4 to 20mA, RS 232, USB, pulse
- Data logger (Type 4000)
- Transit time measurement



**Ultrasonic Flowmeter
type U1000**

- 0.1 m/s-10 m/s
- d50-d150
- DC 12-24 V
- Output: 4-20 mA, pulse or frequency
- Transit time measurement



pH/ORP sensors and instruments



**SmartPro transmitter
type 9900**

- Multi-Parameter input selection
- Large auto-sensing backlit display
- "Dial-type" digital bar graph
- Optional field upgradable relays
- Selectable error mode for current outputs, 3.6 mA or 22 mA
- Optional Relay, Direct Conductivity/Resistivity, HART modules 4 to 20 mA Output Module are available



**DryLoc pH and ORP Electrodes
type 2724-2726**

- 0-14 pH, ±2000 mV ORP
- Ryton body, PE junction
- Use fittings for in-line applications or 3/4" NPT or ISO
- Suitable for submersible applications
- DryLoc preamplifier connection with gold plated pins



**Threaded DryLoc pH/ORP
Electrode - type 2774-2777**

- 0-14 pH, ±2 000 mV ORP
- Ryton body, PTFE junction
- Use sensor 3/4" threads for mounting
- DryLoc preamplifier connection with gold plated pins
- Suitable for submersible applications
- For use with 2750/2760 preamplifiers



**pH/ORP Wet-Tap Assembly - type 3719/
2756, Wet-Tap Electrodes type 2757**

- Use a wet-tap style sensor; for 0-14 pH, ±2000 mV ORP
- CPVC, PVC
- 1 1/2 or larger
- 1 1/2 or 2 NPT; ISO 7/1-R1.5 or R2
- Electrode removal without process shutdown



**Differential DryLoc pH/ORP Electrodes
type 2764-2767**

- 0-14 pH, ±2000 mV ORP
- Ryton body, PTFE junction
- Use sensor 1 inch threads for mounting
- DryLoc preamplifier connection with gold plated pins
- For use with 2750/2760 preamplifiers



**DryLoc pH/ORP Sensor Electronics
type 2750**

- 0-14 pH, ±2 000 mV ORP
- PBT, CPVC (PVC-C)
- DryLoc connection with gold plated pins
- 4-20 mA or digital (S³L)
- Use with 8900, 9900 or PLC
- In-line and submersible versions available



**DryLoc pH and ORP Electrodes for Harsh
Applications - type 2734 - 2736**

- Enhanced reference and bridge gels to resist chemical poisoning
- Ryton® (PPS) body and PTFE junction for broad range of chemical compatibility
- PTFE reference junction resists fouling and chemical attack
- Mounts in Signet standard fittings from DN15 to DN100 (1/2 to 4 in.)



**Advanced pH/ORP Sensor Electronics
type 2751**

- -1 to 15 pH, +/- 1,500 mV ORP
- Memory chip support for 262x and 273x pH/ORP Electrodes
- Remote Calibration
- Electrode Diagnostics
- 4-20mA or Digital (S³L)
- Use with 8900, 9900, or PLC
- In-Line and Submersible

Conductivity/resistivity sensors and instruments



Dual-Channel Conductivity Controller - type 8860

- Displays μS , mS , $\text{K}\Omega$, $\text{M}\Omega$, PPM
- AC or DC supply
- Up to 2 sensor inputs
- Up to 2 Open Collector outputs and 4 relay outputs
- Up to 3 active current outputs
- % reject, % recovery, and ratio functions



SmartPro transmitter type 9900

- Multi-Parameter input selection
- Large auto-sensing backlit display
- „Dial-type“ digital bar graph
- Optional field upgradable relays
- Selectable error mode for current outputs, 3.6 mA or 22 mA
- Optional Relay, Direct Conductivity/Resistivity, HART modules 4 to 20 mA Output Module are available



Conductivity Integral System with 9900 Transmitter

- Local display for sensor mounted instruments
- Provides 4-20 mA output
- „At a glance“ visibility
- „Dial-type“ digital bar graph
- NEMA 4X/IP65



DryLoc Conductivity Sensor Electronics type 2850

- 0.055-400 000 μS (0.02-200 000 ppm) (18.2 $\text{M}\Omega$ - 1 $\text{K}\Omega$)
- PBT or CPVC
- Integral systems connect to the 2839 series electrodes or 2819 series electrode via special order
- 4-20 mA or digital [S²L]



Conductivity/Resistivity Electrodes type 2818-2823

- 0.055-400 000 μS (0.02-200 000 ppm) (18.2 $\text{M}\Omega$ - 1 $\text{K}\Omega$)
- 316 SS or Titanium (Hastelloy-C also available upon request)
- Reversible threads or sanitary flange connections
- Connect to 2850 sensor electronics



Conductivity Electrodes Sensor type 2839-2842

- 0.055-200 000 μS (0.02-100 000 ppm) (18.2 $\text{M}\Omega$ - 1 $\text{K}\Omega$)
- 316 SS and PEEK
- Dual threaded NPT or ISO
- Connection to Conductivity/Resistivity instruments or 2850 sensor electronics
- NIST Certificate

Dual-Channel ProcessPro's -3 are still available

Temperature sensors and instruments



SmartPro transmitter type 9900

- Multi-Parameter input selection
- Large auto-sensing backlit display
- „Dial-type“ digital bar graph
- Optional field upgradable relays
- Selectable error mode for current outputs, 3.6 mA or 22 mA
- Optional Relay, Direct Conductivity/Resistivity and HART modules are available



Temperature Integral System with 9900 Transmitter

- Local display for sensor mounted instruments
- Provides 4-20 mA output
- „At a glance“ visibility
- „Dial-type“ digital bar graph
- NEMA 4X/IP65



Temperature Sensor type 2350

- In-line mounting: 10 °C to 100 °C (14 °-212 °F)
- Submersible mounting: 10 °C to 85 °C (14 °-185 °F)
- PVDF
- 3/4 inch dual threaded for in-line or submersible installation
- 4-20 mA or digital [S²L]

Easy to monitor

Temperature, pressure and level sensors and instruments



Pressure Integral System with 9900 Transmitter

- Utilizes the 2450 sensor for pressure or hydrostatic level measurement
- Local display for sensor mounted instruments
- Provides 4-20 mA output
- "At a glance" visibility
- "Dial-type" digital bar graph
- NEMA 4X/IP65



Pressure Sensor type 2450

- 0 - 0.7 bar (0 - 10 psig) - U
- 0 - 3.4 bar (0 - 50 psig) - L
- 0 - 17 bar (0 - 250 psig) - h
- Vacuum range available
- Wetted material: PVDF, ceramic and FPM
- 1/2" union, dual threaded
- 4-20 mA or digital (S³L)



Ultrasonic Integral Level Transmitter type 2260

- Non-contact principle
- Narrow 5 and 6° beam
- Range: 4, 6, 15 meters (13, 20, 50 ft)
- 4-20 mA, HART, relay output
- PP and PVDF bodies
- ATEX versions
- Quick-set and advanced menu
- Large multi-parameter display



Ultrasonic Level Sensor type 2270

- Non-contact principle
- Narrow 5 and 6° beam
- Range: 4, 6, meters (13, 20, ft)
- 4-20 mA, HART
- PP and PVDF bodies
- Easy to use EView programming software



Point level switches

- Body materials for water, water based liquids and concentrated chemicals
- Versions for industrial- and municipal water treatment
- Digital transistor- and relay outputs
- ATEX versions
- WHG versions
- Versions without moving parts



Hydrostatic Level Sensor type 2250

- 0-10 psi = 0-7.03 m = 0-23.06 ft
- 0-50 psi = 0-35.15 m = 0-115.32 ft
- Wetted Material: PVDF, PVC, ceramic and PFM
- Submersible sensor
- 4-20 mA or digital (S³L)
- Uses hydrostatic pressure for level and depth control

..... Product launch in 2014

Water analysis



Chlorine Analyzer System type 4630

- Continuous free chlorine measurement without chemical reagents
- Optional pH sensor for increased accuracy
- Pre-wired panel for easy installation
- Built in pressure regulator and variable area flow meter



Turbidimeter type 4150

- Compliant with U.S. EPA 180.1 or ISO7027
- Two adjustable alarm relays
- Built-in pressure regulator
- Easy access for wiring and maintenance
- Optional auto cleaning for reduced maintenance



Process Optical Dissolved Oxygen Sensor - type 2610

- Optical DO measurement with no flow requirements
- No membranes or filling solutions
- Flexible communications 4 to 20 mA or Modbus 3-2610-31 (S³L), 4 to 20 mA or Modbus 3-2610-41
- Measurement Range: 0-20 mg/L, 0-200% Saturation



Chlorine Dioxide System type 4632

- Complete turnkey system – no additional parts required to install
- Now available with a flow switch interrupt (chlorine and Chlorine dioxide)
- Complies with EPA standard 334.0
- Chemical free measuring system – 0-2 ppm
- Optional pH measurement



Easy to operate

Accessories



**Switching Power Supplies
type 7310**

- Universal AC input/Full Range
- Protections: Short circuit/Overload/Over-voltage
- Cooling by free air convection
- Install on DIN rail TS-35/7.5 or 15
- Built in DC OK active signal
- LED indicator for power on



**i-GO Signal Converter
type 8058**

- Connects third party 4-20 mA signals to the 8900 and 9900
- Available for single or dual 4-20 mA sensor inputs
- Requires special programming for use with the 8350, 8450
- Compatible with 8900, 9900



**8059 external relay
module**

- AC and DC powered versions
- External relays controlled by host instrument
- Digital pass-through (DC versions) to simplify wiring
- Relay can be tested locally, and also via the host instrument
- Only compatible with 8900



**HART -
USB Modem**

- HART to USB converter
- Portable or DIN rail version
- ATEX



**pH/ORP System Tester
type 2759**

- Battery powered
- Simulates pH and ORP
- Compatible with 2750 and 2760 preamp
- Connects to any pH/ORP instrument



**Configuration/Diagnostic Tool
type 0250 USB to Digital (S³L)**

- User friendly interface
- Configure all modifiable parameters in the sensor
- Monitor/graph sensor data or log sensor data to a file
- Monitor mV readings in pH/ORP sensors to monitor drift



**Conductivity/Resistivity Tools
type 2850-101-X**

- Available in 5 different values
- Verifies electronic independent of electrode
- Compatible with all conductivity and resistivity instruments
- Temperature compensated to 25 °C



**PC COMM Configuration Tool
type 0251**

- User friendly interface
- Configure settings such as instrument type, units and modify labels
- Back up and restore 9900 Transmitter configurations to a computer
- Use a single file to clone multiple 9900 Transmitters



**Buffer Solutions
type pH/ORP**

- NIST Traceable
- Easily identifiable colour coded buffer solutions
- Liquid or powder versions
- Temperature compensated values
- Kits for easy use



**Formazin Stock Kit for Turbidimeter
type 4150**

- Turbidity standard for most any value
- Three different graduated pipettes included
- Four glass cuvettes with light shield caps
- Easy to follow instructions



**Calibration Kits for Turbidimeter
type 4150**

- Stable pre-mixed standards that are certified accurate
- Sealed calibration cuvettes
- Shelf-life 12 months
- Easy to follow instructions
- Kits for easy use



**Wall Mount
Accessory Kit**

- Compact enclosure that works with 9900 Transmitter and other ¼ DIN size instruments
- Equipped with a ¼ DIN cutout and two ½" holes at the base
- Mounting hardware and liquid tight connectors are included



**4-20mA Sensor GK 15 for VAFM
type 335/350**

- 12-24 V DC
- IP 65
- 4-20 mA (3 wire)



**Limit contacts GK 10/GK11 for type 335/350
and short version**

- Reed contact
- IP65
- 230 V

Easy to connect

Installation fitting tees



Plastic - Metric Tees

- ABS* DN20-DN50
- PVC DN15-DN50
- PP DN15-DN50
- PVDF DN15-DN50
- PE DN15-DN50



Plastic - Fiberglass Tees

- Fiberglass 1.5-2.0" / SCH 80



Plastic - PVC Tees

- PVC 0.50-4.0" / SCH 80
- PVC-C 0.50-2.0" / SCH 80
- PVC BSP* 0.50-2.0"
- Fiberglass 1.50-2.0" / SCH 80



Metal - Tees

- Carbon Steel NPT 0.50-2.0" / SCH 40
- Copper Sweat-on 0.50-2.0" / SCH K
- Galvanized Iron NPT 1.00-2.0" / SCH 40



Metal - Tees

- 316 SS NPT 0.50-2.00" / SCH 40
- Brass NPT 1.00-2.00" / SCH 40

* BSP and ABS fittings are available through your local Georg Fische sales company.

Weldolets / brazolets



Weldolet

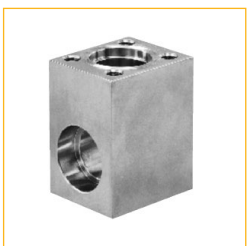
- PVC-U DN65-DN600
- PP DN65-DN600
- PE DN65-DN600
- PVDF DN65-DN600
- SS DN50-DN630



Weldolets / Brazolets

- Carbon Steel 2.5-12.0" / SCH 40
- Brass 2.5-12.0" / SCH 40
- 316 SS 2.5-12.0" / SCH 40

Metalex



Metalex

- SS Socket 0.50-1.00"
- SS Weld-on 1.25-12"



Metalex Weld-on Mini-Tap

- 1.25-12"



Wafer fittings



Wafer

- PP DN65–DN300 (2.5–4.0")
- PVDF DN65–DN200 (3.0")

Saddles



Saddle

- Iron Multi 1.25–1.50" / SCH 80



Strap-On

- Iron 2.0–12.0" / SCH 80



Electrofusion Transition

- PE 2.0–12.0"



Electrofusion

- PE DN65–DN400



Clamp-On

- PVC 2.0–8.0" / SCH 80
- PVC-U metric DN65–DN200
- BSP 3"–6"



PVC-U Glue-On

- PVC 10"–12" / SCH 80



Glue-On

- PP Glue-On 10.0" and 12.0" / SCH 80



Glue-on

- PVC-U DN65–DN300
- ABS DN65–DN200

Control

Precise control
throughout your automation loop

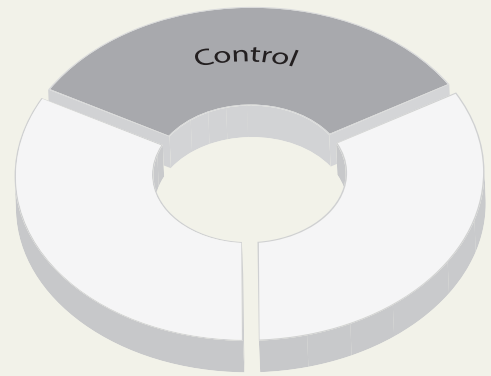
Clever design makes life easy. All our measurement parameters can be connected with one and the same transmitter, a true multi-parameter controller. Additional functionalities like batch control or communication technologies can be added anytime because of the modular design. Our control products are simple to operate, have intuitive menu structures and can be upgraded modularly.



Control

Control products

An overview of the key products



Multi-parameter instruments



**SmartPro transmitter
type 9900**

- Multi-Parameter input selection
- Large auto-sensing backlit display
- „Dial-type“ digital bar graph
- Optional field upgradable relays
- Selectable error mode for current outputs, 3.6 mA or 22 mA
- Optional Relay, Direct Conductivity/ Resistivity, HART modules 4 to 20 mA Output Module are available



**Multi-parameter/ Multi-channel
controller - type 8900**

- AC or DC power option
- Up to 6 sensor inputs (2 frequency inputs max)
- Up to 4 4-20mA outputs
- Up to 8 relays
- Use with all digital (S²L) sensors

Flow instruments



**SmartPro Batch Controller
type 9900-1BC**

- „Dial-type“ digital bar graph
- Remote control wiring with start, stop and resume terminals for remote batch control
- 3 programmable relays
- 10 batch memory
- Compatible with flow sensors
- Two-stage control to prevent overfilling
- Simple and advanced programming modes

Accessories

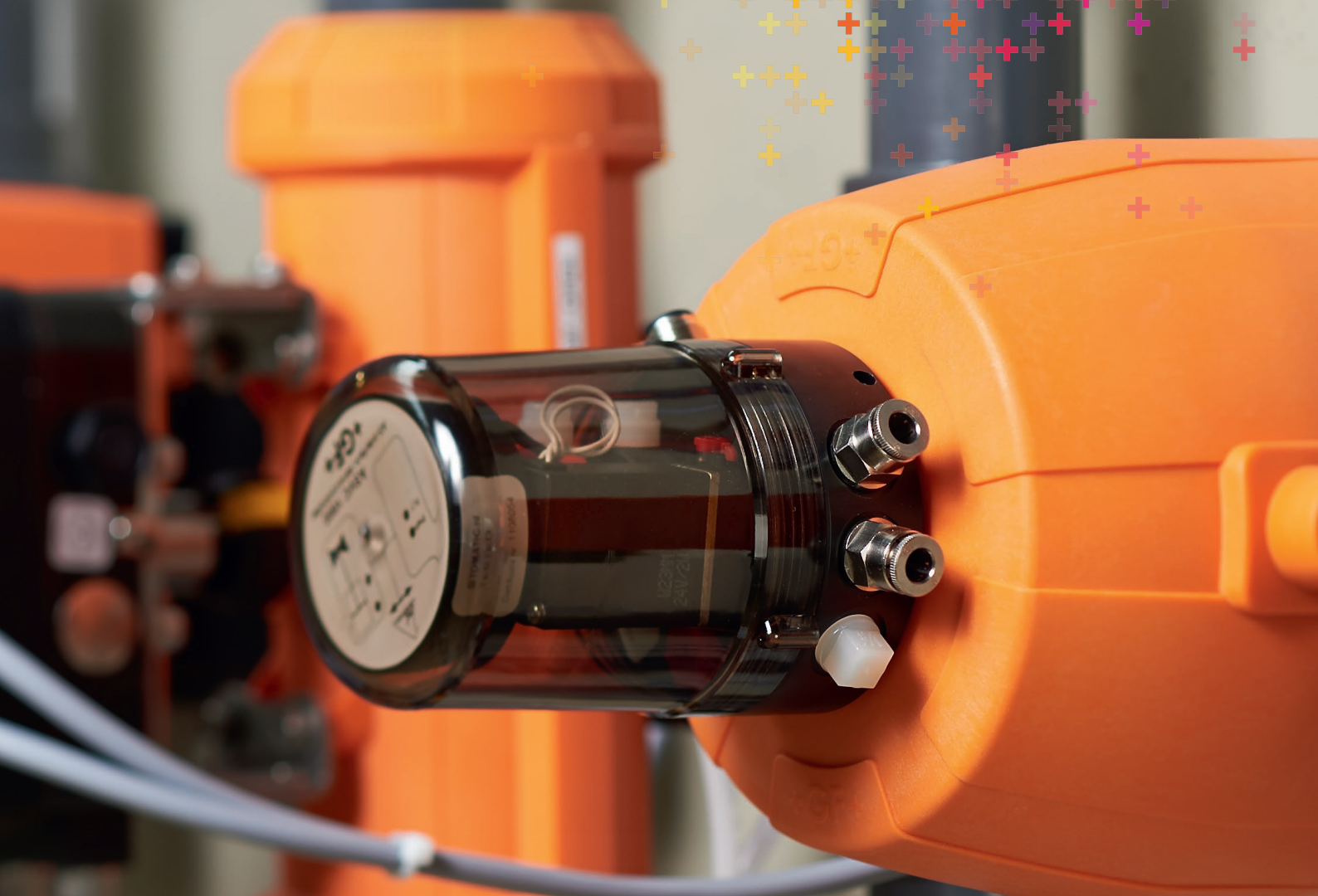


**i-GO Signal Converter
type 8058**

- Connects third party 4-20 mA signals to the 8900 and 9900
- Available for single or dual 4-20 mA sensor inputs
- Compatible with 8900, 9900
- Requires programming at the factory with the 8350, 8450

Actuation

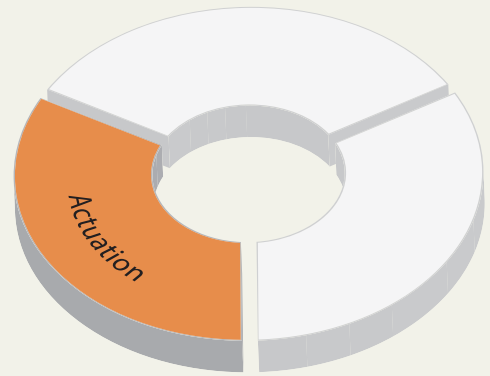
Reliable actuation with configuration flexibility



With our modular set-up, valves and actuators can be combined flexibly and additional functionalities, like positioners or monitoring devices, can be added optionally. Naturally, we offer the whole range in all-plastic designs, which are capable of withstanding harsh environments. A wide range of pressure regulating valves and accessories complete our actuation portfolio.

Actuation products

An overview of the key products



Actuators electric and pneumatic



**Electric actuators
type EA11**

- 100-230 V AC, 24 V AC/DC
- 20 Nm peak (F05)
- 150 000 cycles, 40% ED
- Position Feedback optional
- Fail-safe modul optional
- Heating Element optional



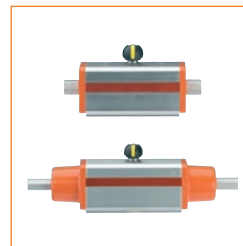
**Electric actuators
type EA21, EA31, EA42**

- 100-230 V AC, 24 V AC/DC
- EA21: 20 Nm peak (F05) 100% ED
- EA31: 120 Nm peak (F07) 50% ED
- EA42: 250 Nm peak (F07) 35% ED
- Accessory like EA11 plus additional
- with monitoring and positioner options



**Pneumatic actuator
type PA11, PA21**

- FC, FO, DA
- Rack and pinion principle
- Accessory interface acc. ISO5211
- Visual position indication
- Full plastic solution
- PA11: 10 Nm/ PA21: 20 Nm



**Pneumatic actuator
type PA30 - PA90**

- FC, FO, DA
- Scotch Yoke principle
- Accessory interface acc. ISO5211
- Visual position indication
- Adjustable end stops
- Various coatings on request

Actuated butterfly valves



**Butterfly valve electric
type 140/141/142**

- Electric actuated butterfly valve
- Actuator Type: EA31/42 (24 V, 110-230 V)
- Plastic Butterfly Valve Wafer/ Lugstyle
- Butterfly Valve Typ 567/568
- PVC-U, PVC-C, ABS, PP-H, PVDF
- 567: DN50-DN600; 568: DN50-DN200



**Butterfly valve electric
type 038-E/ 039-E**

- Electric actuated butterfly valve
- Actuator Type: EA31/42 (24 V, 110-230 V)
- Metal Butterfly Valve Wafer/ Lugstyle
- Butterfly Valve Type 037/038/039
- 037: Aluminium, Wafer; 038/039: Ductile Iron with Powder/ Epoxy Coating/ Rilsan Coating
- 037: DN50-DN300; 038: DN50-DN600; 039: DN50-DN1200

Easy to modify

Actuated butterfly valves



**Butterfly valve pneumatic
type 240/241/242**

- Pneumatic actuated butterfly valve
- Actuator Type: PA30-PA90
- Plastic Butterfly Valve Wafer/ Lugstyle
- Butterfly Valve Typ 567/568
- PVC-U, PVC-C, ABS, PP-H, PVDF
- 567: DN50-DN600; 568: DN50-DN200



**Butterfly valve pneumatic
type 038-P/039-P**

- Pneumatic actuated butterfly valve
- Actuator Type: PA30-PA90
- Metal Butterfly Valve Wafer/ Lugstyle
- Butterfly Valve Type 037/038/039
- 038/039: Ductile Iron with Powder/Epoxy Coating/ Rilsan Coating
- 038: DN50-DN600; 039: DN50-DN1200

Actuated ball valves



**Electric Ball Valve
type 104**

- Electric actuated 2-way ball valve
- Actuator Type: EA04 (24V, 85-230V)
- Actuating angle 0-90°
- Ball Valve 546
- PVC-U, CPVC, PP-H
- DN10 - DN50
- Limited accessory range
- Low cycle applications



**Electric ball valve
type 107**

- Electric actuated 2-way ball valve
- Actuator Type: EA11 (24 V, 110-230 V)
- Actuating angle 90°
- Ball Valve 546
- ABS, PVC-C, PVC-U, PP-H, PVDF
- DN10-DN50



**Electric ball valve
type 130-135**

- Electric actuated 2-way ball valve
- Actuator Type: EA21/31 (24 V, 110-230 V)
- Actuating angle 90°
- Ball Valve 546
- ABS, PVC-C, PVC-U, PP-H, PVDF
- EA21 DN10-DN50; EA 31 DN65-DN100



**Electric ball valve
type 185-188**

- Electric actuated 3-way ball valve
- Actuator Type: EA21 (24 V, 110-230 V)
- Actuating angle 90°; max. 180°
- Ball Valve 543
- PVC-U; PVC-C; ABS; PP; PVDF
- DN10-DN50



**Pneumatic ball valve
type 285-288**

- Pneumatic actuated 3-way ball valve
- Actuator Type: PA11/PA21
- Actuating angle 90°
- Ball Valve 543
- PVC-U, PVC-C, ABS, PP, PVDF
- DN10-DN50



**Pneumatic ball valve
type 230-235**

- Pneumatic actuated 2-way ball valve
- Actuator Type: PA11/PA21 (<DN65)
- Actuator Type: PA30-PA90 (>DN50)
- Ball Valve 546
- ABS, PVC-C, PVC-U, PP-H, PVDF
- DN10-DN100

Actuation

Actuated diaphragm valves



Diaphragm valve DIASTAR type Six

- ABS, PVC-U, PVC-C, PP-H
- EPDM
- DN15-DN50
- PN6
- pneumatic actuated FC



Diaphragm valve DIASTAR type Ten

- ABS, PVC-U, PVC-C, PP-H, PP-N, PVDF, PVDF-HP
- EPDM, FPM, PTFE/EPDM, PTFE/FPM
- DN15-DN50
- PN10
- pneumatic actuated FC, FO, DA



Diaphragm valve DIASTAR type TenPLUS

- ABS, PVC-U, PVC-C, PP-H, PVDF, PVDF-HP
- EPDM, FPM, PTFE/EPDM, PTFE/FPM
- DN15-DN50
- PN10 (both sides)
- pneumatic actuated FC, FO, DA



Diaphragm valve DIASTAR type Sixteen

- PVDF, PVDF-HP
- EPDM, FPM, PTFE/EPDM, PTFE/FPM
- DN15-DN50
- PN16
- pneumatic actuated FC, FO, DA



Diaphragm valve DIASTAR type 025

- ABS, PVC-U, PVC-C, PP-H, PVDF, PVDF-HP
- EPDM, FPM, PTFE/EPDM, PTFE/FPM
- DN65-DN150
- up to PN10
- pneumatic actuated FC, FO, DA

Actuated process control valves



Solenoid valve type 157

- direct acting pivoted armature valve
- 2/2-Ways
- PVC-U
- EPDM, FPM
- 230 V AC, 24 V AC, 24 V DC
- DN4-DN8
- 0-4 bar depending on dimension



Solenoid valve type 160/161

- direct acting pivoted armature valve
- 2/2- or 3/2-Ways
- PVC-U
- EPDM, FPM
- 230 V AC, 24 V AC, 24 V DC
- DN10-DN20
- 0-3 bar depending on dimension



Solenoid valve type 165

- pilot assisted solenoid valve
- 2/2-Ways
- PVC-U, PVDF
- EPDM, FPM
- 230 V AC, 110 V AC, 24 V AC, 24 V DC
- DN15-DN50
- 0.5-6 bar



Solenoid valve type 166

- direct acting pivoted armature valve
- 2/2- or 3/2-Ways
- PVC-U, PVDF
- EPDM, FPM
- 230 V AC, 110 V AC, 24 V AC, 24 V DC
- DN3-DN5
- 0-10 bar depending on dimension

Easy to regulate

Pressure regulating valves



**Pressure Reducing Valve
type 582**

- PVC-U, CPVC, PP-H, PVDF
- Spigot or union connection
- O-ring Material: EPDM, FPM
- DN10–DN50
- 0.5–9 bar or 0.3–3 bar
- Manometer with or without gauge guard optional



**Pressure Retaining Valve
type 586**

- PVC-U, CPVC, PP-H, PVDF
- Spigot or union connection
- O-ring Material: EPDM, FPM
- DN10–DN50
- 0.5–9 bar or 0.3–3 bar
- Manometer with or without gauge guard optional



**Pressure retaining valve
type V86/V186/V786**

- PVC-U, PP, PVDF
- EPDM, EPDM-PTFE-coated
- V86: DN65–80: 1–6 bar, DN100: 1–4 bar
- V186: DN10–50: 0.5–10 bar
- V786: DN10–25: 0.5–10 bar
DN32–40: 0.5–4 bar



**Pressure reducing valve
type V82/V182/V782**

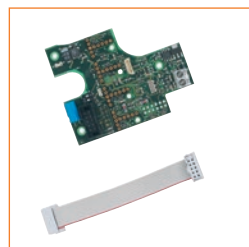
- PVC-U, PP, PVDF
- EPDM, EPDM-PTFE-coated
- V82: DN10–50: 0.5–10 bar
DN65–80: 0.5–6 bar
DN100 0.5–4 bar
- V182: DN10–40: 0.5–10 bar
- V782: DN10–40: 0.5–10 bar

Electric accessories



**Limit switches (position feedback) for
EA11-42**

- Mechanical switches (AgNi or Au)
- NPN/PNP
- Middle position (3way ball valve)
- Additional 2 limit switches
- For EA11: AgNi switches only



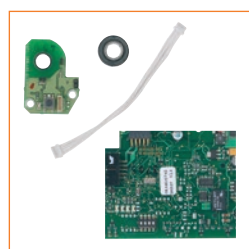
**Monitoring Options for electric actuators for
EA21-42**

- Cycle counter
- Cycle time monitoring
- Cycle time extension
- Motor current monitoring
- 4–20 mA Feedback (together with Position detection)



**Heating element and Fail-safe return
unit for EA11-42**

- Heating element reduces condensation
- Caused by temperature variation
- Fail safe return unit for safe
- Adjustment in case of power failure
- 230 V AC; 24 V AC/DC



**Positioner and Position Detection for
EA21-42**

- Input: 0–10 V or 4–20 mA
- Output: 4–20 mA
- Self-learning function
- End-stop adjustment
- Plug and Play



Pneumatic accessories



Solenoid pilot valve 3/2-ways type PV94

- 230 V, 50-60 Hz
- 115 V, 50-60 Hz
- 24 V, 50-60 Hz
- 24 V DC
- G 1/8;G1/4; G6 mm
- DN1.2



Solenoid pilot valve 3/2-ways type PV95

- 230 V, 50-60 Hz
- 115 V, 50-60 Hz
- 24 V, 50-60 Hz
- 24 V DC
- G 1/8;G1/4;
- DN1.5-DN2



Solenoid Pilot valve type 2000

- Modular version for 3/2-way and 5/2-way valves
- 24 V DC
- Connection module AS-Interface
- Connection module profibus interface



Solenoid pilot valve type MNL 532

- Version for 3/2-way and 5/2-way
- Namur connection
- Material of body: Aluminium
- 24 V AC, 24 V DC, 48 V AC, 110 V AC, 230 V AC



Electric position feedback type ER 52-1/ER53-1

- For pneumatic stroke actuators
- For Diastar Ten, TenPLUS, Sixteen, 025
- Mechanical switches (AgNi or Au)
- NPN/PNP, Namur
- With visual position indication



Electric position feedback limit switch box

- For pneumatic rotary actuators
- For PA11-90:
- Mechanical switches (AgNi or Au)
- NPN/PNP, Namur
- With visual position indication



Stroke limiter/ manual override

- For Diastar all type Ten, TenPLUS, Sixteen, 025



Digital electro-pneumatic positioner type DSR 500

- Mounted on pneumatic control valves
- Linear and rotary actuators
- Nominal stroke 3-28 mm
- Self-learning
- Control signal 4-20 mA
- 24 V DC

..... Product launch in 2014.

Communication Products

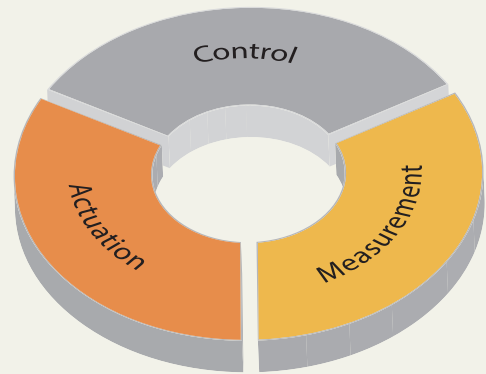
Different communication protocols for different needs



Our automation loop can be managed with various communication technologies and can therefore be seamlessly integrated into existing plant management systems. We offer analogue and digital communication technologies which support on/off or continuous control loops. Benefits are less wiring, faster installations and more efficient diagnostic and parameterization capabilities.

Communication products

An overview of the key products



Communication



HART

- HART Protocol superimposes digital signals on top of the 4-20 mA analog signal
- Communication occurs between two HART-enabled devices
- HART protocol operates according to the master-slave method



Profibus

- Modular version for 3/2-way and 5/2-way valves
- 24 V DC
- Connection module AS-Interface
- Connection module profibus interface



AS-interface for pneumatic rotary actuators

- Pilot valve 5/2-Ways
- Electric feedback integrated
- Full plastic housing
- Optical status indicator
- AS Interface Version 3.0



AS-interface for electric actuators

- Integrated control an electric
- Feedback
- For 24 V DC actuators
- For EA11-EA42
- Manual override standard



AS-interface for manual valves with feedback

- With integrated feedback
- Ideal for ball valves
- Ideal for butterfly valves
- Ideal for diaphragm valves



AS-interface for pneumatic stroke actuators

- Pilot valve 3/2-Ways
- Compact design
- Full plastic housing
- Optical status indicator
- AS Interface Version 3.0



AS-interface for sensor with switch output

- With switching output
- For level switch
- For flow switch
- For pressure switch
- For temperature switch



Profibus Concentrator type 3-0486

- Connect GF Actuated Valves and Sensors to Profibus Automation Networks
- Supports Six S³L sensors or relay modules plus a proportional controlled actuated valve
- Four of the S³L inputs support Flow frequency devices for cost effective flow monitoring
- Two of the S³L inputs support 4 to 20mA current loop inputs for connections to third party sensors
- 4 to 20 mA current loop input and output for connection to GF proportional controlled actuated valves

..... Product launch in 2014

Valves

The right valve
for your application

We offer one of the most comprehensive valve product ranges, which enables you to find the right match for your application. Our valves are available in a wide selection of dimensions, materials, chemical resistances, standards, actuation, operation principles, and pipe connections and are designed for long service life. The combination of the right valve selection and our high product quality leads to a favorable total cost of ownership.

Valves

Manual ball valves



**Ball valve
type 546**

- ABS, PVC-C, PVC-U, PP-H, PVDF
- EPDM, FPM, Ball Seat: PTFE, PVDF
- DN10-DN100
- up to PN16 = PVC-U, PVC-C, PVDF; up to PN10 = PP-H, ABS
- Lockable Lever, Multifunctional Module
- Lever
- Linear version



**3-Way ball valve
type 543**

- ABS, PVC-C, PVC-U, PP-H, PVDF
- EPDM, FPM, Ball Seat: PTFE, PVDF
- DN10-DN50
- up to PN10
- Lockable Lever, Multifunctional Module
- Lever



**Metering ball valve
type 523**

- PVC-U, PP-H, PVDF
- EPDM, FPM, Ball Seat: PTFE
- DN10-DN15
- up to PN16
- Lever



**Ball valve
type 375**

- PVC-U
- EPDM, FPM, Ball Seat: PTFE
- DN10-DN100
- up to PN16 to DN50, up to PN10 to DN100
- Lever
- not actuated



**Coloro
type 353-355**

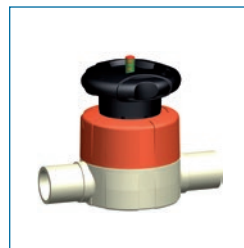
- PVC-U
- EPDM, Ball Seat: HD-PE
- DN10-DN50
- up to PN16
- Lever
- not actuated

Manual diaphragm valves



**Diaphragm valve
type 514**

- PVC-U; PVC-C; ABS; PP-H; PVDF; PVDF-HP
- EPDM; PTFE/EPDM; FPM; PTFE/FPM
- DN15-DN50
- up to PN16
- Lockable Handwheel
- Electrical Feedback Module



**Diaphragm valve
type 515**

- PVC-U; PVC-C; ABS; PP-H; PP-N; PVDF; PVDF-HP
- EPDM; PTFE/EPDM; FPM; PTFE/FPM
- DN15-DN50
- up to PN16
- Lockable Handwheel
- Electrical Feedback Module



**Diaphragm valve
type 517 (317)**

- PVC-U; PVC-C; PP-H; PVDF; PVDF-HP
- EPDM; PTFE/EPDM; FPM; PTFE/FPM
- DN15-DN50 (Type 317: DN65-DN150)
- up to PN16
- Lockable Handwheel
- Electrical Feedback Module



**Diaphragm valve
type 519**

- PP-H; PP-N; PVDF-HP
- EPDM; PTFE/EPDM; PTFE/FPM
- DN20-DN20 : d110-d63
- up to PN16
- Lockable Handwheel
- Electrical Feedback Module

Valves

Manual butterfly valves



**Butterfly valve manual
type 567/568**

- ABS, PVC-U, PVC-C, PP-H, PVDF
- Sealings: EPDM, FPM, PTFE/FPM
- DN50-DN300 (-DN600)
- 568: DN50-DN200
- PN10
- Lever, Gear, 230 V o. 24 V, FC/F0/DA
- Electrical Feedback Module



**Metal butterfly valve
type 038/039**

- 038: GGG,LUG; 039: GGG Wafer
- Sealings: EPDM, FPM
- 038: DN50-DN300;
- 039: DN50-DN1200
- PN10/PN16
- Lever, Gear, 230 V o. 24 V, FC/F0/DA



Accessories



**Multifunctional
modules**

- Multi functional module
- Accessory for ball valves 546/543
- Limit switch Ag Ni, Au, Namur, NPN, PNP
- Interface for el./pneum. Actuators



**Electrical feedback
module**

- Electrical feedback module
- Accessory for diaphragm valves 514-519
- Limit switch Ag Ni or Au
- Self adjusting mechanism



**Integrated position
indicator**

- Integrated position indicator
- Accessory for butterfly valves 567
- Limit switch Ag Ni, AU, Namur, NPN, PNP

Special valves



**Check valve
type 561/562**

- ABS, PVC-C, PVC-U, PP-H, PVDF
- EPDM, FPM
- DN10-DN100
- up to PN16
- Type 562 with spring



**Ventilating valve/
Ventilating and bleed valve
type 591/595**

- ABS, PVC-C, PVC-U, PP-H, PVDF
- EPDM, FPM
- DN10-DN100
- up to PN16
- Type 595 with spring



Special valves



**Angle seat check valve
type 303/304**

- PVC-U, ABS
- EPDM, FPM
- DN10-DN80
- PN10



**Wafer check valve
type 369**

- PVC-U, PP-H, PVDF
- EPDM, FPM
- DN32-DN300
- PN6



**Line strainer
type 305/306**

- PVC-U, PVC-C, ABS, PP-H, PVC-U transparent
- EPDM, FPM
- DN15-DN50, PVC-U up to DN80
- PN10



**Angle seat valve
type 300/301**

- PVC-U
- PE, PTFE
- DN10-DN80
- PN10



**Water jet suction pump (eductor)
type P20**

- PVC-U, PP-H, PVDF
- EPDM, FPM
- DN10-DN80
- PN10



**Throttle valve
type V251**

- PVC-U, PP-H, PVDF
- EPDM, FPM
- DN10-DN50
- PN10



**Gauge guard
type Z700/701**

- PVC-U, PP-H, PVDF
- EPDM, EPDM-PTFE-coated
- DN20 or DN 25
- PN10
- With or without manometer



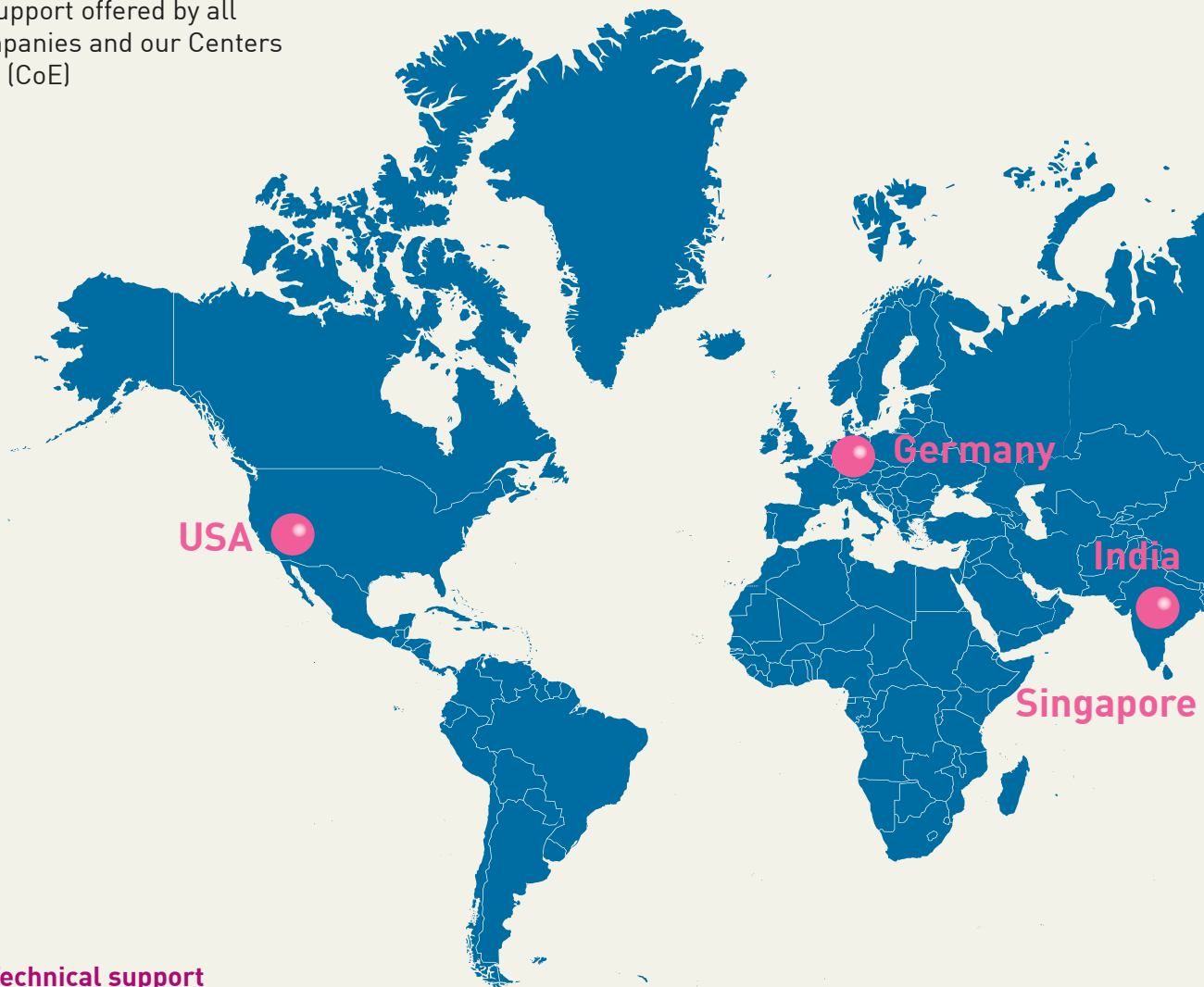
**Float valve
type V140**

- PVC, PP
- EPDM, FPM
- DN10-DN80
- PN6
- Vertical mounting position

Centres of excellence

Competent support for you

Competent support offered by all GF sales companies and our Centers of Excellence (CoE)



Technical support

Technical support and material selection are key factors for a successful installation. A team of specialists individually support our customers around the world.



Chemical resistance

Our specialist teams have decades of experience in the area of chemical resistance. They can offer individual support and consult in selecting the right material.



Training courses

GF Piping Systems offers a wide range of training courses that allow participants to gain confidence in working with our products and proven jointing technologies.



On-site training

Our experts are available to support our customers locally and conduct training in diverse fusion and jointing techniques on location.



CAD library

The database comprises over 30 000 drawings and technical data regarding pipes, fittings, measurement and control technology as well as manual and actuated valves.



Support

+ Easy access support

Quick, reliable and competent service is as important as a comprehensive product offering

We ensure that our staff in all countries has state-of-the-art knowledge of products, applications and technology. As a result, our local GF automation specialists can support you professionally in choosing the right products and defining a system which truly satisfies your needs, in addition to commissioning and after-sales service. Furthermore, GF is setting up a global network of centers of excellence (CoE) for automation where dedicated teams for sales, service and automation training are available to you.

+ Value added services

From planning support to implementation – our specialists are always close by

As a leading provider of piping systems in plastic and metal, we offer our customers not only reliable products, but also a large package of services. Our support ranges from a comprehensive technical manual or the extensive CAD library to an international team of experts, who work closely together with local sales companies. And when it comes to implementing a project, our customers additionally benefit from a wide range of training courses, either on site or in our modern Training Centres worldwide.



Online and mobile calculation tools

Our numerous, multilingual online tools and mobile applications are very useful for on-site configuring and calculating.



Technical manual

We have documented the extensive know-how of GF Piping Systems in planning and installing piping systems in our technical manual for customers.



Customising

The focus of these teams is to manufacture custom parts for special systems. In addition, a variety of special solutions can be produced in small series.

For more information on our automation system please contact our local sales companies and our sales representatives.

www.gfps.com

Worldwide at home

Our sales companies and representatives ensure local customer support in over 100 countries

www.gfps.com

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