

GF Piping Systems

+GF+

Automation made easy for you

Accurate measurement
Precise control
Reliable actuation



The best choice

Corrosion and chemical resistant system solutions

+ Georg Fischer

Georg Fischer focuses on three core businesses: GF Piping Systems, GF Automotive and GF Machining Solutions. The industrial corporation, founded in 1802, headquarters in Switzerland and operates approximately 120 companies with more than 14,800 employees in 33 countries. GF Piping Systems is a leading supplier of plastic and metal piping systems with global market presence. We offer pipes, fittings, valves, automation products, jointing technology and corresponding services for the treatment of water and chemicals, as well as for the safe distribution of liquids and gases.

+ 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 and sub-segments:

- Agriculture
- Aquatics
- Chemical Processing
- Energy
- Food & Beverage / Cooling
- Industrial Water & Waste Treatment
- Marine
- Microelectronics
- Mining
- Municipal Water & Waste Treatment
- Plating

+ Global presence

Our global presence ensures customer proximity worldwide. Sales companies in 26 countries and representatives in another 80 countries provide customer service around the clock. With 32 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.

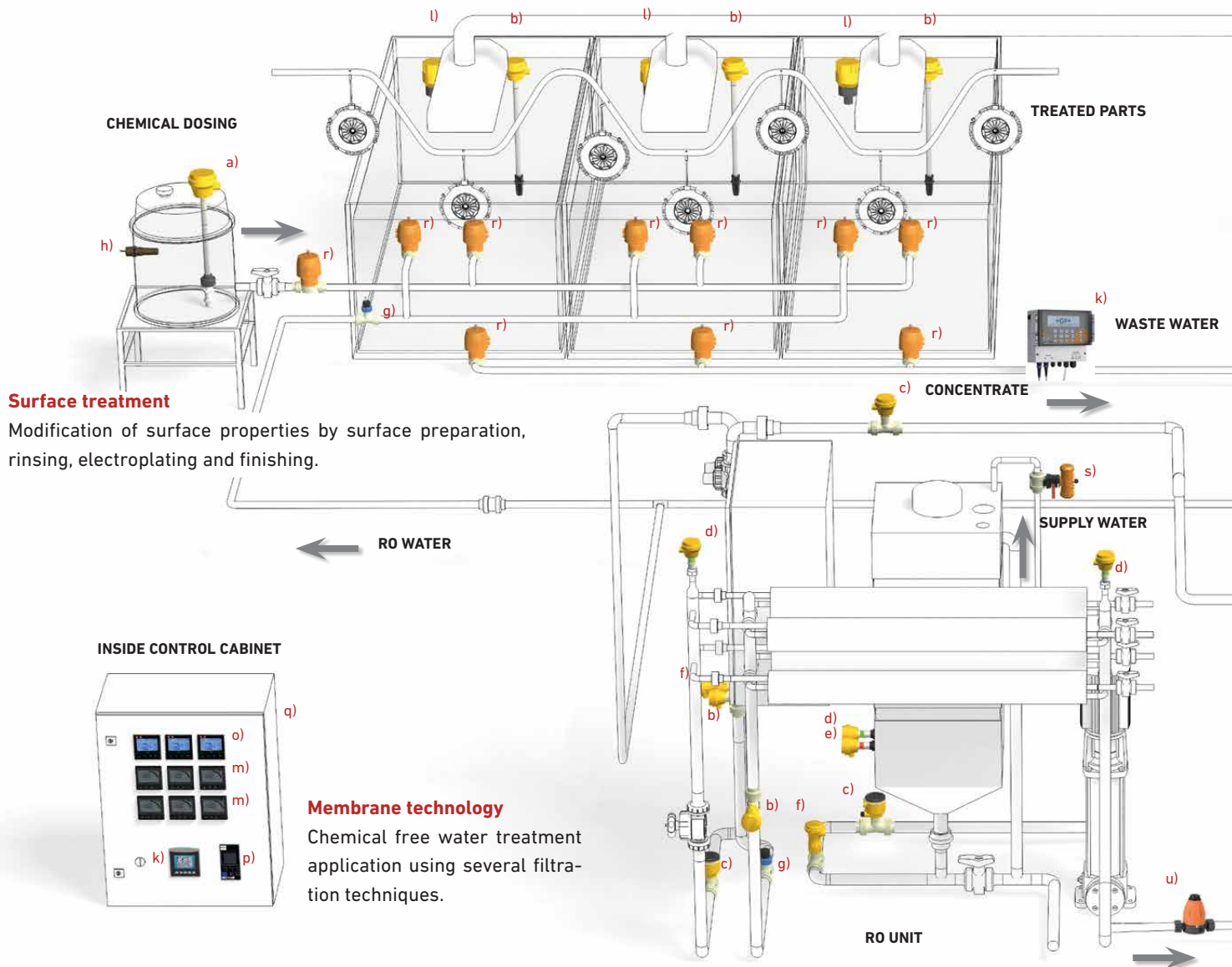
+ Complete solutions provider

Our extensive product range represents a unique form of product and competence bundling. With over 70 000 products, allied with a broad range of services, we offer individual and comprehensive system solutions for a variety of industrial applications. Having the profitability of the projects of our customers 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.

Industrial automation made easy

We have a comprehensive automation offering for your industrial applications.



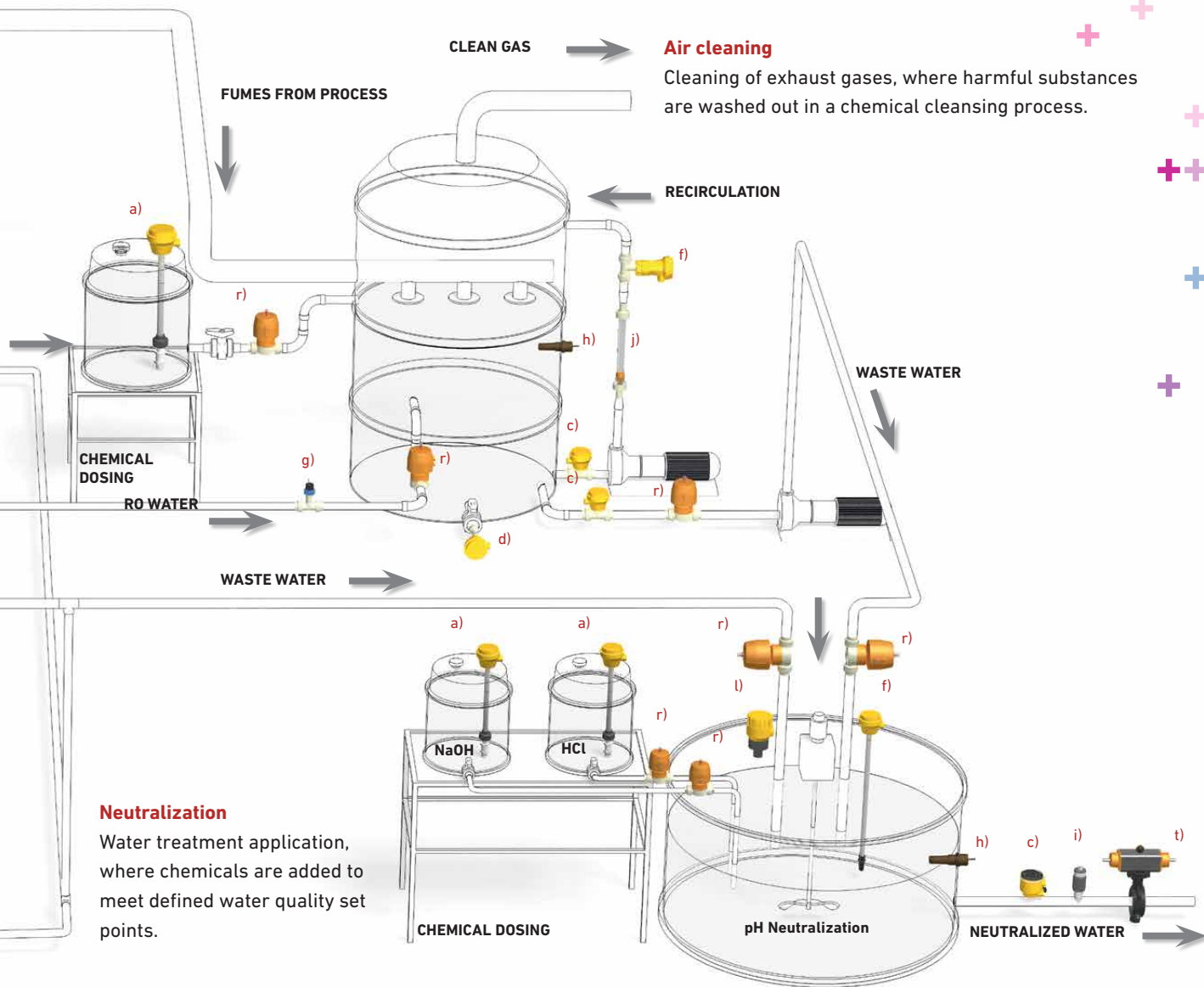
Measurement

- 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 335
- k) U3000/4000 ultrasonic flowmeter
- l) Ultrasonic level sensor type 2270

+ 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) Dual channel transmitter type 9950
- p) PID controller
- q) Profibus concentrator

Actuation / Valves

- r) Diaphragm valve, pneumatic, type DIASTAR Ten
- s) Pneumatic ball valve type 230
- t) Pneumatic butterfly valve type 240
- u) Pressure retaining valve type 586

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

Measurement

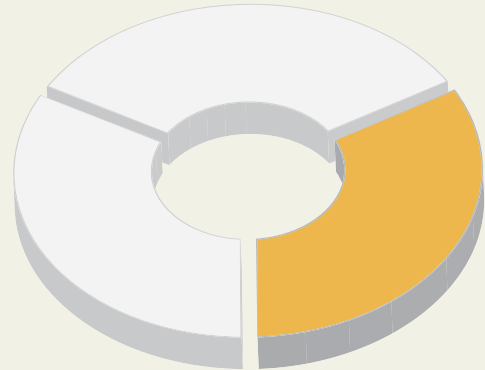
Accurate measurement is the basis for reliable process control



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 offered with suitable installation fittings.

Measurement products

An overview of the key products



Paddlewheel flow sensor



Rotor-X paddlewheel low flow sensor type 2536

- 0.3 to 20 ft/s (0.1 - 6 m/s)
- ½ to 36 in. (DN15 - DN900)
- ½ to 4 in. (DN15 - DN100) for PVC
- PP 180 psi @ 38 °F (12.5 bar @ 20 °C)
- PVDF 203 psi @ 68 °F (14 bar @ 20 °C)
- PVC 203 psi @ 68 °F (14 bar @ 20 °C)
- 15 Hz per ft/S nominal (49 Hz per m/S nominal)



Rotor-X paddlewheel flow sensor type 515

- Non-powered
- 1 to 20 ft/s (0.3 - 6 m/s)
- ½ to 36 in. (DN15 - DN900)
- PP 180 psi @ 68 °F (12.5 bar @ 20 °C)
- PVDF 203 psi @ 68 °F (14 bar @ 20 °C)
- Wet tap sensors available



Paddlewheel flow sensor type 2537

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



Stainless steel paddlewheel flow sensor - type 2540

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



Metalex paddlewheel flow sensor type 525

- 1.6-20 ft/s (0.5 - 6 m/s)
- ½-12 in. (DN15 - DN300)
- 316 stainless steel
- 1500 psi @ safety factor 1.5 (103 bar @ 300 °F (149 °C))



2540 Hot-Tap

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

Magmeter



Magmeter (blind or display) type 2551

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



Metal magmeter type 2552

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

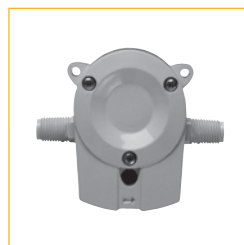
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Inline flow sensors



**Turbine flow sensor
type 2100**

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



**Micro-flow rotor sensor
type 2000**

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



**Mini-flow rotor sensor
type 2507**

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

Displays / transmitters



SmartPro transmitter type 9950

- One instrument for multiple sensor types
- Dual channel: two different sensor types can be combined in one instrument
- Configurable display
- Derived measurements
- Advanced boolean logic
- Optional modules can be added for additional capabilities
- USB Port for field upgrades using standard USB flash drive



**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
- Plastic paddlewheel or plastic magmeter



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, 4 to 20 mA output, Modbus, and HART modules are available
- NEMA 4X/IP65 front



**Battery powered flow totalizer
type 8150**

- Displays GPS, GPM, GPH, GPD, LPS, LPM, LPH, LPD
- Battery powered
- Single input
- Panel or field mount
- 3 totalizers, auto calibration options
- Use with 515 or 525 flow sensors
- NEMA 4X/IP65

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Variable area flow meters



Variable area flow meters type 335 / 350, SK50-73

- Taper tubes in PVC transparent, PA, PSU, PVDF
- Union connection with PVC (std)
- $\frac{3}{8}$ " - 3 $\frac{1}{2}$ " (DN10 - DN65)
- 150 psi (PN10)
- Optional switch feedback
- Special scales on request

Ultrasonic flow meters



Portaflow portable ultrasonic flow meter - type 330 / 220

- 0.3 f/s-66f/s (0.1 m/s-20 m/s)
- $\frac{1}{2}$ " - 78" (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



Ultrasonic flow meter type U1000

- 0.3 f/s-33f/s (0.1 m/s-20 m/s)
- 1" - 4" (d25 - d115)
- DC 12 - 24 V
- Output: 4 - 20 mA, pulse or frequency
- Transit time measurement



Ultraflow wall mount ultrasonic flow meter - type 3000 / 4000

- 0.3 f/s-66f/s (0.1 m/s-20 m/s)
- $\frac{1}{2}$ " - 78" (d13 - d2000)
- DC 24 V or AC 86 - 240 V
- Output 0/4 to 20 mA, RS 232, USB, pulse
- Data logger (type 4000)
- Transit time measurement

Easy to install

pH/ORP sensors and instruments



SmartPro transmitter type 9950

- One instrument for multiple sensor types
- Two different sensor types can be combined in one instrument
- Configurable display
- Derived measurements
- Advanced boolean logic
- Optional modules can be added for additional capabilities
- USB Port for field upgrades using standard USB flash drive



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, 4 to 20 mA output, Modbus, and HART modules are available



DryLoc pH/ORP electrodes for general purpose applications - type 2724-2726

- 0-14 pH, $\pm 2,000$ mV ORP
- Ryton body, PE junction
- Use Signet Installation Fittings for in-line applications 0.5" - 4", or the 3/4" M-NPT process connection
- Suitable for submersible applications
- DryLoc preamplifier connection with gold plated pins



DryLoc pH/ORP high performance electrodes - 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
- Use Signet Installation Fittings for in-line applications 0.5"-4", or the 3/4" M-NPT process connection



Threaded dryLoc pH/ORP electrodes for harsh applications type 2774-2777

- 0-14 pH, $\pm 2,000$ 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



Differential dryLoc pH/ORP electrodes for harsh applications - type 2764-2767

- 0-14 pH, $\pm 2,000$ 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
- Suitable for submersible applications



DryLoc pH/ORP smart sensor electronics type 2751

- 4 - 20 mA or digital (S²L)
- Probe health monitoring
- Memory chip interface
- In-line integral mount and submersible installation versions
- Auto configuration for pH or ORP
- pH buffer recognition for 4, 7 and 10 pH and ORP solutions



pH/ORP wet-tap assembly - type 3719/2756, wet-tap electrodes type 2757

- Use a wet-tap style sensor for 0-14 pH, $\pm 2,000$ mV ORP
- CPVC, PVC
- 1 1/2 to 20"
- 1 1/2 or 2 NPT, ISO 7/1 - R1.5 or R2
- Electrode removal without process shutdown



Wet-tap pH/ORP assembly type MK721

- For use with 2751
- 316 L Stainless Steel Wet-Tap pH or ORP Sensor Assembly with 1" SS ball valve
- Requires the 3-2722 to connect to pH/ORP electronics.



Integral 9900 with pH

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



Conductivity/resistivity sensors and instruments



SmartPro transmitter type 9950

- One instrument for multiple sensor types
- Dual channel: Two different sensor types can be combined in one instrument
- Configurable display
- Derived measurements
- Advanced boolean logic
- Optional modules can be added for additional capabilities
- USB Port for field upgrades using standard USB flash drive



Conductivity/resistivity 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



Conductivity/resistivity electrodes type 2818 - 2823

- 0.055 - 400 000 μ S (0.02-200 000 ppm) (18.2 M Ω - 1 K Ω)
- 316 SS or titanium (hastelloy-C also available upon request)
- Reversible threads or sanitary flange connections
- Connect to 2850 sensor electronics



Conductivity/resistivity wet-tap assembly

- 0.055 - 400 000 μ S (0.02-200 000 ppm) (18.2 M Ω - 1 K Ω)
- 316 SS
- Valve Insertion Assembly
- Connect to 2850 sensor electronics



SmartPro transmitter type 9900

- Multi-parameter input selection
- Large auto-sensing backlit display
- "Dial-type" digital bar graph
- Configurable display
- Optional field upgradable relays
- Selectable error mode for current outputs, 3.6 mA or 22 mA
- Optional relay, direct conductivity/resistivity, 4 to 20 mA output, Modbus, and HART modules are available



Conductivity sensor electronics with PVDF type 2850

- 0.055 - 400 000 μ S (0.02 - 200 000 ppm) (18.2 M Ω - 1 K Ω)
- PBT (integral mount) /PBT/CPVC (universal J-box)
- Integral systems connect to the 2839 series electrodes or 2819 series electrode via 3-286X universal j-box assembly
- 4 - 20 mA or digital (S³L)
- Factory NIST certified



PVDF conductivity/resistivity electrodes type 2839 - 1V(D) - 2842 - 1V(D)

- 0.055-200 000 μ S (0.02-100 000 ppm) (18.2 M Ω - 1 K Ω)
- 316 SS and PVDF
- Dual threaded NPT
- Connection to 9900 - 1, 8900 instruments or 2850 sensor electronics
- NIST certificate



Universal in-line sensor adapter

Extended sensor insertion, use with:

- Conductivity
- Temperature
- Pressure

Temperature and pressure sensors and instruments



SmartPro transmitter type 9950

- One instrument for multiple sensor types
- Two different sensor types can be combined in one instrument
- Configurable display
- Derived measurements
- Advanced boolean logic
- Optional modules can be added for additional capabilities
- USB port for field upgrades using standard USB flash drive



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



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



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, 4 to 20 mA output, Modbus, and HART modules are available



Temperature sensor type 2350

- In-line mounting: 14 ° - 212 °F (10 °C to 100 °C)
- Submersible mounting: 14 ° - 185 °F (10 °C to 85 °C)
- PVDF
- 3/4 inch dual threaded for in-line or submersible installation
- 4-20 mA or digital (S³L)



Pressure sensor type 2450

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

Level sensors and transmitters



SmartPro transmitter type 9950

- One instrument for multiple sensor types
- Two different sensor types can be combined in one instrument
- Configurable display
- Derived measurements
- Advanced boolean logic
- Optional modules can be added for additional capabilities
- USB port for field upgrades using standard USB flash drive



Non-contacting radar level transmitter type 2290

- Non-contacting
- Robust against most interfering factors such as fumes, light foaming or fluctuations of pressure or temperature
- Display and comprehensive configuration menu
- PP, PTFE or steel antenna enclosures
- 0.65 - 59 ft (0.2 m - 18 m) (depending on er of the process liquid)



Ultrasonic integral level transmitter type 2260

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



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 FKM
- Submersible sensor
- 4-20 mA or digital (S³L)
- Uses hydrostatic pressure for level and depth control



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, 4 to 20 mA output, Modbus, and HART modules are available



Guided radar level transmitter type 2291

- Reliable guidance of measuring signal along probe
- Advanced resilience in case of extreme fumes, thick foam layers or agitation
- Great performance also on media of low dielectric constants
- Special coatings for probes available: PP, PFA and FEP



Ultrasonic level sensor type 2270

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



i-Go signal converter type 8058

- Single input converter; 4 to 20 mA output converted to a digital (S³L) output
- For use with 9900 or 9950
- Free of charge when purchased with 9900 or 9950 and ultrasonic or radar level sensor

Point level switches



**Vibration forks
type 2280**

- For safe operation in critical applications
- Cable, DIN connector and connection terminals
- Easy wiring in various applications
- No moving parts
- No maintenance costs
- 1" Process connection



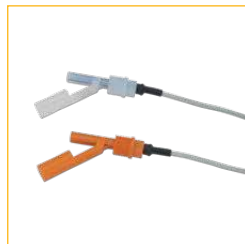
**Ultrasonic gap switch
type 2284**

- PPS full-plastic body
- Reliable point level detection even in very corrosive or viscous liquids
- Optimized chemical compatibility
- Compact size
- Easy installation in pipes and small systems
- ¾" and 1" Process connection



**Conductive multipoint switch
type 2281**

- Individual cutting of electrodes
- Most economic solution to indicate multiple point levels
- Easy adaptation of switching points on site
- Up to 4 switching points in one sensor
- 4 times faster installation: Cost effective solution
- Electrode length 20" up to 60"; 108" optional



**Guided float switch
type 2282**

- For high or low level
- PP or PVDF full-plastic body
- Compact and cost attractive solution for small vessels
- Optimized chemical compatibility
- Ultra compact housing
- Easy installation in compact systems



**Float switch
type 2285**

- Double chambered enclosure
- Easiest way to monitor point levels in open tanks and basins
- High operational safety
- Mercury free switching contact

Water analysis



**Chlorine analyzer system
type 4630**

- Ranges: 0.02–2 ppm, 0.05–5 ppm, 0.1–20 ppm
- 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
- EPA 334.0 compliant



**Turbidimeter
type 4150**

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



Process optical dissolved oxygen sensor type 2610

- S/L for use with 9900 or 9950
- Optical DO measurement with no flow requirements
- No membranes or filling solutions
- Flexible communications, 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 – 0.02 – 2 ppm
- Optional pH measurement

Easy to monitor

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
- 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
- For use with 2260, 2270, 2290, 2291 level transmitters



**pH/ORP system tester
type 2759**

- Battery powered
- Simulates pH and ORP
- Compatible with 2750/2751 and 2760 preamp
- Connects to any pH/ORP instrument



Configuration tool type 0252

- Back up and restore SmartPro transmitters and blind sensors
- configurations to a computer file
- User-friendly interface
- Configure settings such as instrument type, units, scale 4 to 20 current loops and modify labels from the computer
- Use a single file to clone multiple
- SmartPro transmitters and blind sensors: 9900, 9950, 2250, 2350, 2450, 2551, 2552, 2751



**NIST Conductivity/resistivity tools
type 2850-101-X**

- Available values: 1.0 uS, 2.5 uS, 10.0 uS, 10 Meg Ohm, and 18.2 Meg Ohm
- Verifies electronic independent of electrode
- Compatible with all conductivity and resistivity instruments
- Temperature compensated to 25 °C



9900 pH/ORP Calibrator

- Battery operated for portability
- Large auto-sensing backlit display
- "Dial-type" digital bar graph
- 2751 Smart Sensor included
- Electrode not included



**Flow wet-tap valve
type 3519**

- 1/2 to 36 in. (DN15 - DN900)
- PVC
- 100 psi max @ 68 °F (7 bar @ 20 °C)
- Use with wet-tap paddlewheel flow sensors type 515 and 2536



DPD kit

- EPA approved method to test Free Chlorine
- Used for initial startup and calibration of the 3-463X chlorine panels
- Use after maintenance/service of the 3-263X series Free Chlorine sensors



Buffer solutions type pH/ORP

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



Wall mount accessory kit

- Compact enclosure that works with 9900 transmitter and other 1/4 DIN size instruments
- Equipped with a 1/4 DIN cutout and two 1/2" holes at the base
- Mounting hardware and liquid tight connectors are included



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



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

- Reed contact
- IP65
- 230 V



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

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



Rear enclosure kits for 9900

- Compatible with all existing 9900-1P transmitters
- NEMA TYPE 4X/IP66 rated for indoor or outdoor installations
- Spacious for any 9900 transmitter accessory module
- Hinged cover design for easy to access wiring
- Hinged cover suitable for wall mount or pipe mount installations



Signet enclosures

- For 9900 or 9950
- Standard part numbers
- NEMA 4X
- Stainless hinges and latches
- Pad-lockable latch
- Pre-wired between display and DIN rail terminals
- Universal input 100-240 VAC
- 8 ft, 120 VAC power cord
- DIN rail terminal block for easy termination of field wires
- Pre-drilled conduit holes equipped with liquid-tight cord grips



Signet enclosures

- For 8900
- Standard part numbers
- NEMA 4X
- Stainless hinges and latches
- Pad-lockable latch
- Pre-wired between display and DIN rail terminals
- Universal input 100-240 VAC
- 8 ft, 120 VAC power cord
- DIN rail terminal block for easy termination of field wires
- Pre-drilled conduit holes equipped with liquid-tight cord grips
- Custom configurations on request

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
- Special order 1/2 saddles available up to 12 inch / DN 300



Plastic - PVC tees

- PVC 0.50 - 2.0" / SCH 80
- CPVC 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 GF sales company.
NOTE: Other sizes and materials available as Specials up to 36"

Weldolets / brazolets



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



Electrofusion transition

- PE 2.0 - 12.0"



PVC Glue-on

- PVC 10" - 12"/SCH 80
- Special order up to 20 inch



Clamp-on

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



Strap-on

- Iron 2.0 - 12.0"/SCH 80
- Schedule 80 available up to 48 inches/DN 1200
- Sch 52 ductile iron saddle available by special request

Control

Precise control
throughout your automation loop

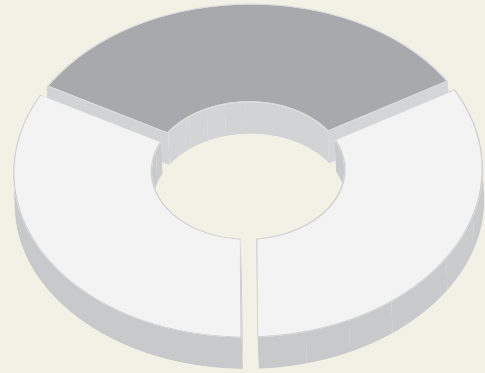
Clever design makes life easy. All our measurement parameters can be connected with one and the same transmitter, a true multi-parameter controller. Additional functionalities like batch control or communication technologies can be added anytime because of the modular design. Our control products are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



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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, 4 to 20 mA output, Modbus, and HART modules are available



Dual channel transmitter type 9950

- Independent dual channel multi-parameter, flow, pH, ORP, conductivity, resistivity, pressure, temperature, level, volume, salinity, dissolved oxygen, other (4 to 20 mA)
- 2 Passive 4 to 20 mA loop outputs standard
- Options for up to 4 relays – dry contact or solid state
- Derived functions: ratio, difference, sum, % rejection, % recovery



Multi-parameter/multi-channel controller type 8900

- AC or DC power option
- Up to 6 sensor inputs (2 frequency inputs max)
- Up to 4 - 20mA outputs
- Up to 8 relays
- Use with all digital (S³L) sensors



0486 Profibus Concentrator

- Interface Signet products to a PROFIBUS network with a single service
- Four channels support (S³L) or flow frequency devices
- Two channels support (S³L) or 4 to 20 mA current loops
- Support for PROFIBUS DP V1 and DP V0
- Convenient DIN Rail or surface mountable enclosure

Modules



Modules type 9900

- 2 mechanical relays module
- Direct conductivity module
- HART communication module
- Batch module
- Additional 4 to 20 mA output module



Modbus modules type 9900

- Connect to PLCs and SCADA systems
- Live readings
- Primary and secondary readings
- Units of measure for each reading
- Sensor status
- Good reading, missing sensor, missing probe, wrong sensor



Modules type 9950

- 4 mechanical relays module
- 2 mechanical relays and 2 solid state relays module
- 2 mechanical relays with 4 binary input modules

Accessories



PID controller type 3216

- Easy set-up
- Auto-tune
- 24 V or 100 - 230 V
- External set-point
- Manual override via push button
- Compact design
- 4-20 mA input/output
- 1/16 DIN
- NEMA 4/IP65 front



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

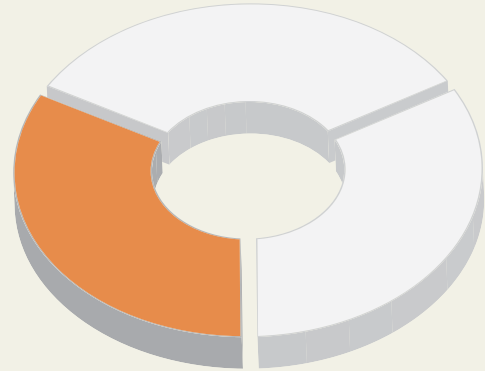
Actuation

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



**General purpose electric actuators
Type EA15**

- Glass-filled PP housing
- 100–230 V AC, 24 V AC/DC
- Output torque of 20 NM
- Highly visible LED position indication
- Standard: two position end stops and feedback, heater and manual override
- Optional: Integrated fail-safe return unit



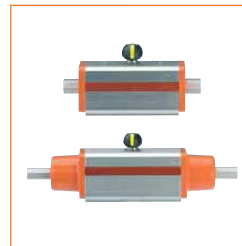
**Industrial process electric actuators
Type EA25, EA45, EA120, EA250**

- Glass-filled PP housing
- 100–230 V AC, 24 V AC/DC
- Output torque from 20–250 NM
- Highly visible LED position indication
- Standard: three position end stops and feedback, heater and manual override
- Optional: Integrated fail-safe return units, positioner, actuator monitor board, profibus DP VO



**Thermoplastic pneumatic actuators
Type PA11/PA21**

- FC, FO, DA
- Rack and pinion principle
- Accessory interface acc. ISO5211
- Visual position indication
- Glass-filled PP housing



**Metallic pneumatic actuators
Type PA30 - PA90**

- FC, FO, DA
- Scotch Yoke principle
- Visual position indication
- Adjustable end stops
- Various coatings on request

Actuated butterfly valves



**Industrial electric butterfly valves
Type 145/147**

- Type 567 or Type 578 base valve
- PVC, CPVC, PP, ABS or PVDF body
- EPDM, FKM or PTFE seals
- 100–230VAC or 24VAC/DC
- 2"–12"
- Standard actuation package
- With actuators EA45–250



**Midrange electric butterfly valve
Type 563 Aqua Valve**

- Type 563 base valve
- PVC body with EPDM seals
- 100–230VAC or 24VAC/DC
- 2"–12"
- Standard or economy actuation package
- With actuators EA25–250

Easy to modify

Actuated butterfly valves



**Industrial pneumatic butterfly valve
Type 240/244**

- Type 567 or Type 578 base valve
- PVC, CPVC, PP, ABS or PVDF body
- EPDM, FKM or PTFE seals
- 2"-12"
- FC, FO or DA
- With actuators PA30-90



**Midrange pneumatic butterfly valve
Type 563 Aqua Valve**

- Type 563 base valve
- PVC body with EPDM seals
- FC, FO or DA
- 2"-12"
- Standard or economy actuation package
- With actuators EA25-250

Actuated ball valves



**Industrial pneumatic ball valve
Type 230 - 235**

- Type 546 base valve
- PVC, CPVC, PP, ABS or PVDF body
- EPDM or FKM seals
- PTFE seats
- 3/8"-4" (d16-d110)
- FC, FO or DA
- With actuators PA11-45



**Industrial pneumatic 3-way ball valve
Type 285 - 288**

- Type 543 base valve
- PVC, CPVC, PP, ABS, or PVDF body
- EPDM or FKM seals
- PTFE seats
- 3/8"-2" (d16-d63)
- Horizontal and vertical body styles
- With actuators PA11-21



**Industrial electric ball valve
Type 179 - 184**

- Type 546 base valve
- PVC, CPVC, PP, ABS or PVDF body
- EPDM or FKM seals
- PTFE seats
- 100-230VAC or 24VAC/DC
- 3/8"-2" (d16-d110)
- With actuators EA25-120
- Standard accessories package



**Industrial electric 3-way ball valve
Type 167 - 170**

- Type 543 base valve
- PVC, CPVC, PP, ABS or PVDF body
- EPDM or FKM seals
- PTFE seats
- 100-230VAC or 24VAC/DC
- Horizontal and vertical body styles
- 3/8"-2" (d16-d63)
- With actuator EA25
- Standard accessories package



**Midrange electric ball valve
Type 127**

- Type 546 base valve
- PVC, CPVC or ABS body
- EPDM or FKM seals
- PTFE seats
- 100-230VAC or 24VAC/DC
- 3/8"-2" (d16-d63)
- With actuators EA15
- Limited accessories package



**Economy electric ball valve
Type 104**

- Type 546 base valve
- PVC, CPVC or ABS body
- EPDM or FKM seals
- PTFE seats
- 110 VAC, 220VAC or 24VDC
- 3/8"-2" (d16-d63)
- With actuators EA04
- No accessories package

Actuation

Actuated diaphragm valves



**Pneumatic dosing valve
Type 604/605**

- PVC, CPVC, PP, PVDF
- EPDM, FKM, PTFE/EPDM, PTFE/FKM
- ½" (d20)
- 90 psi (PN6) (combined)
- FC, FO, DA
- Limited accessories package



**Pneumatic diaphragm valve
DIASTAR TenPlus**

- PVC, CPVC, PP, PVDF, PVDF-HP, ABS
- EPDM, FKM, PTFE/EPDM, PTFE/FKM
- ½"-2" (d20-d63)
- 150 psi (PN10) (both sides)
- FC
- Standard accessories package



**Pneumatic diaphragm valve
DIASTAR Six**

- PVC, CPVC, PP, ABS
- EPDM, FKM
- ½"-2" (d20-d63)
- 90 psi (PN6) (combined)
- FC
- Limited accessories package



**Pneumatic diaphragm valve
DIASTAR Sixteen**

- PVC, CPVC, PVDF, PVDF-HP
- EPDM, FKM, PTFE/EPDM, PTFE/FKM
- ½"-2" (d20-d63)
- 240 psi (PN16) (combined)
- FC
- Standard accessories package
- Water applications only



**Pneumatic diaphragm valve
DIASTAR Ten**

- PVC, CPVC, PP, PPn, PVDF, PVDF-HP, ABS
- EPDM, FKM, PTFE/EPDM, PTFE/FKM
- ½"-2" (DN15 - DN50)
- 150 psi (PN10) (combined)
- FC, FO, DA
- Standard accessories package



**Pneumatic diaphragm valve
DIASTAR 025**

- PVC, CPVC, PP, PVDF, PVDF-HP, ABS
- EPDM, FKM, PTFE/EPDM, PTFE/FKM
- 2½"-6" (DN65 - DN150)
- 150 psi (PN10) (both sides)
- FC, FO, DA
- Standard accessories package

Actuated process control valves



**Solenoid valve
Type 157**

- direct acting pivoted armature valve
- 2/2-way
- PVC
- EPDM, FKM
- 230 V AC, 24 V AC, 24 V DC
- DN4-DN8
- 0-60 psi (0-4 bar) depending on dimension



**Solenoid valve
Type 160/161**

- direct acting pivoted armature valve
- 2/2- or 3/2-way
- PVC
- EPDM, FKM
- 230 V AC, 24 V AC, 24 V DC
- DN10-DN20
- 0-45 psi (0-3 bar) depending on dimension



**Solenoid valve
Type 165**

- pilot assisted solenoid valve
- 2/2-Ways
- PVC, PVDF
- EPDM, FKM
- 230 V AC, 110 V AC, 24 V AC, 24 V DC
- DN15-DN50
- 7-90 psi (0.5-6 bar)



**Solenoid valve
Type 166**

- direct acting pivoted armature valve
- 2/2- or 3/2-way
- PVC, PVDF
- EPDM, FKM
- 230 V AC, 110 V AC, 24 V AC, 24 V DC
- DN3-DN5
- 0-150 psi (0-10 bar) depending on dimension

Easy to regulate

Pressure regulating valves



**Pressure reducing valve
Type 582**

- PVC, CPVC, PP, PVDF
- Spigot or union connection
- O-ring Material: EPDM, FKM
- 3/8"-2" (d16-d63)
- 7-130 psi or 4-44psi
- Gauge and gauge guard optional



**Pressure retaining valve
Type 586**

- PVC, CPVC, PP, PVDF
- Spigot or union connection
- O-ring Material: EPDM, FKM
- 3/8"-2" (d16-d63)
- 7-150 psi or 4-44psi
- Gauge and gauge guard optional



**Pressure reducing valve
Type V82**

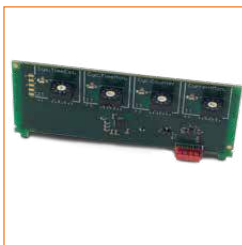
- PVC, PP
- EPDM, EPDM-PTFE-coated
- V82 2 1/2"-4"
(d75 - d110)



**Pressure retaining valve
Type V86**

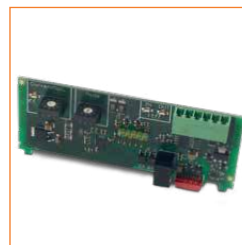
- PVC, PP
- EPDM, EPDM-PTFE-coated
- V86 2 1/2"-4"
(d75 - d110)

Electric accessories



Monitoring board (EA25 - 250)

- Easy monitoring for on/off actuation
- "Plug & Play" installation
- Cycle time extension
- Cycle time monitoring
- Cycle counter
- Motor current monitoring



Positioner (EA25 - 250)

- Input 4-20mA or 0-10V
- Output/Feedback 4.20mA
- Motor current monitoring on board
- "Plug & Play" installation



Fail-safe return unit (E15 - 250)

- Integrated battery including charging management
- Error messages for low battery
- Optional fail safe open/fail safe close
- Optional without battery for external 24V DC source



Profibus (EA25 - 250)

- Version DP V0
- M12 connectors for daisy chain
- Integrated in actuator housing (no external box)
- Can be used in combination with fail-safe return unit
- Monitoring or positioner can be activated via software



Local control box

- Local, remote, off options
- Open, close, off options
- 24VDC or 115 VAC
- Open-close visual indicators



Pneumatic accessories



**Solenoid pilot valve 3/2-way
Type PV94**

- 230 V, 50 - 60 Hz
- 115 V, 50 - 60 Hz
- 24 V, 50 - 60 Hz
- 24 V DC
- Pneumatic connection: 1/8" NPT, G1/8, G1/4, G6mm



**Solenoid pilot valve 3/2-way
Type PV95**

- 230 V, 50 - 60 Hz
- 115 V, 50 - 60 Hz
- 24 V, 50 - 60 Hz
- 24 V DC
- Pneumatic connection: 1/8" NPT, G1/8, G1/4



Local Control Box

- Local, remote, off options
- Open, close, off options
- 24VDC or 115 VAC
- Open-close visual indicators



**Solenoid pilot valve
Type MNL 532**

- 3/2 - 5/2 combo
- Namur connection
- Body: Aluminium
- 24 V AC, 24 V DC, 48 V AC, 110 V AC, 230 VAC
- Speed control



**Electric position feedback
Type ER 52-1/ER53-1**

- For DIASTAR Ten, TenPlus, Sixteen, 025
- Mechanical switches: AgNi or Au
- Inductive switches: NPN/PNP
- With visual position indication



Top mount limit switch

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



Stroke limiter/manual override

- For DIASTAR all types: Ten, TenPlus, Sixteen, 025



**Digital electro-pneumatic positioner
Type DSR 500**

- Mounted on pneumatic control valves
- Linear and rotary actuators
- Control signal 4 - 20 mA , optional 0-10V
- 24 V DC

Communication Products

Different communication protocols for different needs

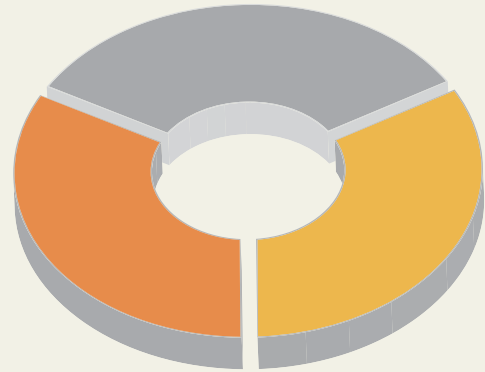
Our automation loop can be managed with various communication technologies and can therefore be seamlessly integrated into existing plant management systems. We offer analogue and digital communication technologies which support on / off or continuous control loops. Benefits are less wiring, faster installations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



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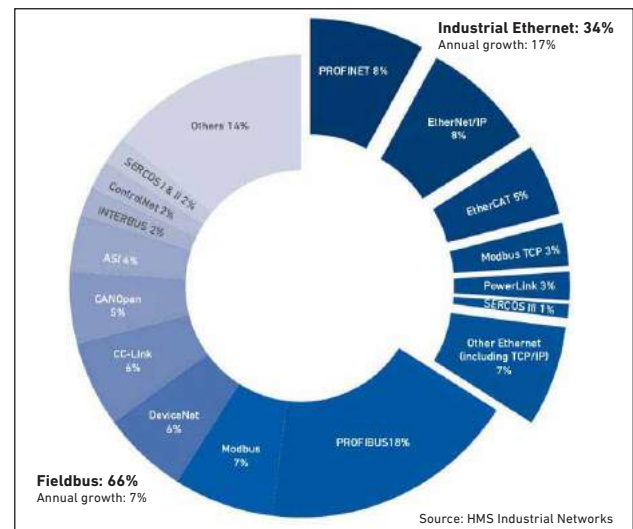
Communication products

Communication in industry

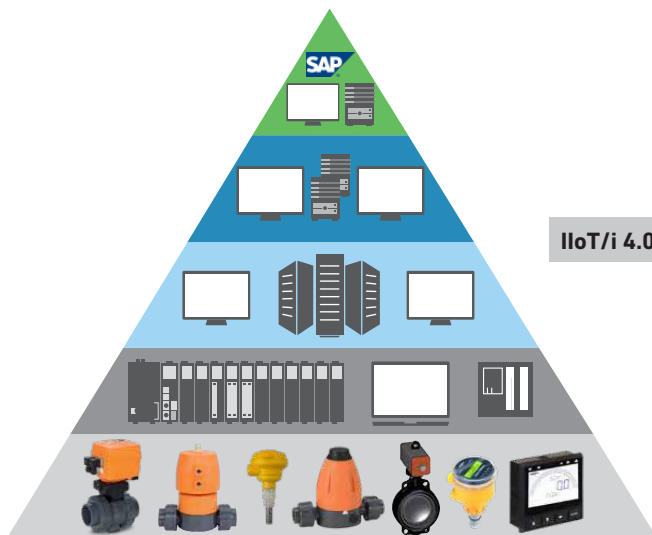


Digital communications with instruments, sensors, and valves is a growing necessity in many applications. The ability to digitally control and gather information from remote devices offers increased flexibility. Internet of Things (IoT), Industrial Internet of Things (IIoT), and Industry 4.0 (i 4.0) are movements in technology that connect individual sensors and actuators to information networks allowing automation and enterprise systems unparalleled access to real time data and information. Already today digital communication is used via different field bus protocols. GF is providing options for Profibus, HART and AS-interface. Converters can be used to transition from one protocol to the other. For the bus communication split please refer to the chart. Very often also standard analogue or digital signals are connected to PLCs to make them accessible for programming. In the future the different layers of system automation will disappear and merge into each other. GF is getting ready to support you in the best way today and in the future.

Fieldbus vs. industrial ethernet

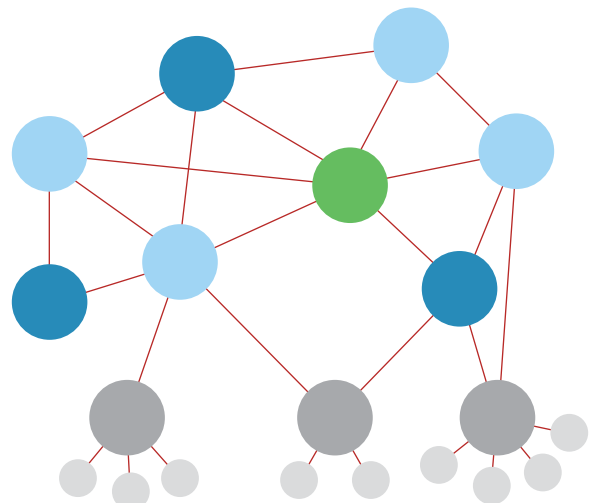


Today (Automation pyramid/hierarchy)



IIoT/i 4.0

Future (Cyber-Physical-Systems)



Communication



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 20 mA current loop inputs for connections to third party sensors



Profibus for valve cluster

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



Profibus (EA25-250)

- Connectable to Profibus DPV0 networks
- Using all the advantages of the standard full plastic GF electric actuator



Transmitter type 9900

- Optional module available



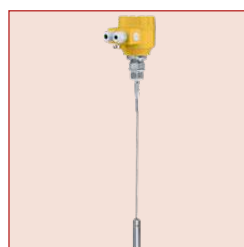
Non-contacting radar level transmitter type 2290

- Non-contacting
- Robust against most interfering factors such as fumes, light foaming or fluctuations of pressure or temperature
- Display and comprehensive configuration menu
- PP, PTFE or steel antenna enclosures



Ultrasonic level sensor type 2260/ ultrasonic level transmitter type 2270

- Non-contacting
- Robust against most interfering factors such as fumes, light foaming or fluctuations of pressure or temperature
- Display and comprehensive configuration menu
- PP, PTFE or steel antenna enclosures



Guided wave radar level transmitter type 2291

- Measuring range up to 6 m (19.6 ft)
- Accuracy: ± 5 mm (0.2 in)
- PP/PFA coated probes available on request
- Rod & cable versions available
- Minimum er 1.9
- Graphic LCD display
- 4 to 20 mA + HART output



AS-interface for pneumatic rotary actuators

- Pilot valve 5/2-way
- 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-way
- 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

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



**Industrial ball valve
Type 546**

- PVC, CPVC, PP, PVDF, ABS
- EPDM, FKM
- Seat: PTFE, PVDF
- 3/8"-4" (d16 - d110)
- Variety of accessory options available
- Can be actuated and positioned (electric or pneumatic)



**Linear control ball valve
Type 546**

- PVC, CPVC, PP, PVDF
- 1/2"-2" (d16 - d63)
- Variety of accessory options available
- Can be actuated and positioned (electric or pneumatic)



**Vented ball valve
Type 546, 375**

- For media with the potential for off-gassing
- PVC and CPVC
- EPDM, FKM
- Socket
- Alternative configurations available upon request



**Midrange ball valve
Type 375**

- PVC, CPVC
- EPDM, FKM
- Seat: PTFE
- 3/8"-4" (d16 - d110)
- 240 psi (PN16)
- No actuation available
- Limited accessories package



**3-Way ball valve
Type 543**

- PVC, CPVC, PP, PVDF, ABS
- EPDM, FKM
- Seat: PTFE, PVDF
- Horizontal or vertical body styles
- 3/8"-2" (DN10 - DN50)
- Up to 150 psi (PN10)
- Variety of accessory options available
- Can be actuated (electric or pneumatic)



**Metering ball valve
Type 523**

- PVC, CPVC, PP, PVDF
- EPDM, FKM
- Seat: PTFE
- 3/8"-1/2" (d16 - d20)
- Up to 240 psi (PN16)
- 180 degree stroke
- Excellent for chemical metering
- Built-in position scale, 5 degree increments
- Electric actuation available

Manual diaphragm valves



**True union diaphragm valve
Type 514**

- Material: PVC, CPVC, PP, PPn, ABS, PVDF
- Diaphragm: EPDM, FKM, NBR, PTFE
- Size: 1/2" - 2" (d20 - d63)



**Spigot diaphragm valve
Type 515**

- PVC, CPVC, PP, PPn, PVDF, PVDF-HP, ABS
- EPDM, FKM, PTFE
- 1/2"-2" (DN15 - DN50)
- Up to 240 psi (PN16)
- Lockable handwheel
- Electrical feedback module



**Flanged diaphragm valve
Type 517 (317)**

- PVC, CPVC, PP, PVDF, PVDF-HP
- EPDM, FKM, PTFE
- Type 517: 1/2"-2" (d20-d63)
- Type 317: 2 1/2"-6" (d75-d160)
- Up to 232 psi
- Lockable handwheel
- Optional: electrical feedback module



**Zero static diaphragm valve
Type 519**

- PP, PPn, PVDF
- EPDM, FKM, PTFE
- 1/2"-2" (DN20 - DN20 : d110 - d63)
- Up to 232psi
- Lockable handwheel
- Electrical feedback module

Valves

Manual butterfly valves



**Industrial wafer style butterfly valve
Type 567**

- PVC, CPVC, PP, PVDF, ABS
- Seals: EPDM, FKM, PTFE/FKM
- 2"-12" (d63cd315)
- 150 psi
- Lever, Gear



**Aqua wafer style butterfly valve
Type 563**

- PVC
- Seals: EPDM
- 2"-12"
- 150 psi
- Lever, gear



**Industrial lug style butterfly valve
Type 578**

- PVC, CPVC, PP, PVDF, ABS
- Seals: EPDM, FKM, PTFE/FKM
- 2"-12" (d63-d315)
- 150 psi
- Lever, gear

Accessories



**Multifunctional
modules**

- Multi functional module
- Accessory for ball valves 546/543
- Limit switch AgNi, Au, Namur, NPN, PNP
- Interface for electric pneumatic actuators



**Electrical feedback
module**

- Electrical feedback module
- Accessory for (manual) diaphragm valves 514-519
- Limit switch AgNi or Au
- Self adjusting mechanism



**Integrated position
indicator**

- Integrated position indicator switches
- Accessory for butterfly valves 567/578
- Limit switch AgNi, AU, Namur, NPN, PNP



Labelling ball valve

- Labelling system for ball valve 546/543/523

Process control valves



**Check valve
Type 561/562**

- PVC, CPVC, PP, PVDF, ABS
- EPDM, FKM
- 3/8"-4" (d16-d110)
- Up to 232 psi
- Type 562 with spring



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

- PVC, CPVC, PP, PVDF, ABS
- EPDM, FKM
- 3/8"-4" (d16-d110)
- Up to 232 psi
- Type 595 with spring
- Float PP / PVDF



Process control valves



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

- PVC, ABS
- EPDM, FKM
- ½"-3" (d16-d90)
- 150 psi



**Wafer check valve
Type 369**

- PVC, PP, PVDF
- EPDM, FKM
- 1¼"-12" (d40-d315)
- 150 psi



**Line strainer
Type 305/306**

- PVC, CPVC, ABS, PP, PVC transparent
- EPDM, FKM
- ½"-3" (d20-d90)
- 150 psi
- Screen: PVC, PP, Stainless steel



**Gauge guard
Type Z500/501**

- True plastic design
- PP, PVDF
- EPDM, EPDM-PTFE-coated
- ¼" or ½" (d12 or d20)
- 150 psi
- With or without pressure gauge



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

- PVC, PP, PVDF
- EPDM, FKM
- ¾"-3" (d16-d90)
- 150 psi

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 Centers worldwide.



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.



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.



Customizing

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.

Centers of excellence

Competent support for you

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



+ 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

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

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

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