

Automation made easy for you

Accurate measurement
Precise control
Reliable actuation



Automation

Automation made easy

The all-in-one solution for your automation needs



GF Piping Systems is your experienced partner with a full portfolio of measurement, control and actuation components, which are easy to install and use and have local support through all phases of the project. 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.



+ Modular system approach

GF Piping Systems offers a complete system solution. It is easy to add automation components to any existing installation to meet your needs and concerns - from actuation of individual valves to full-system upgrades.

+ One partner for all your automation needs

GF Piping System simplifies automation by serving as your partner for all your automation needs - measurement, control, and actuation from a single source. No wasted project time or risk of compatibility issues.

+ Corrosion-free with high chemical resistance

Our automation solutions are housed in high-quality plastic, like the other components of your piping system. This makes them corrosion-free and resistant to critical media, too, so maintenance costs are reduced.

+ Local support on a global scale

Automation can be intimidating when you are just getting started. The experts at GF Piping Systems support you through all phases of your automation project - from planning to initial startup - and are available in 34 countries.

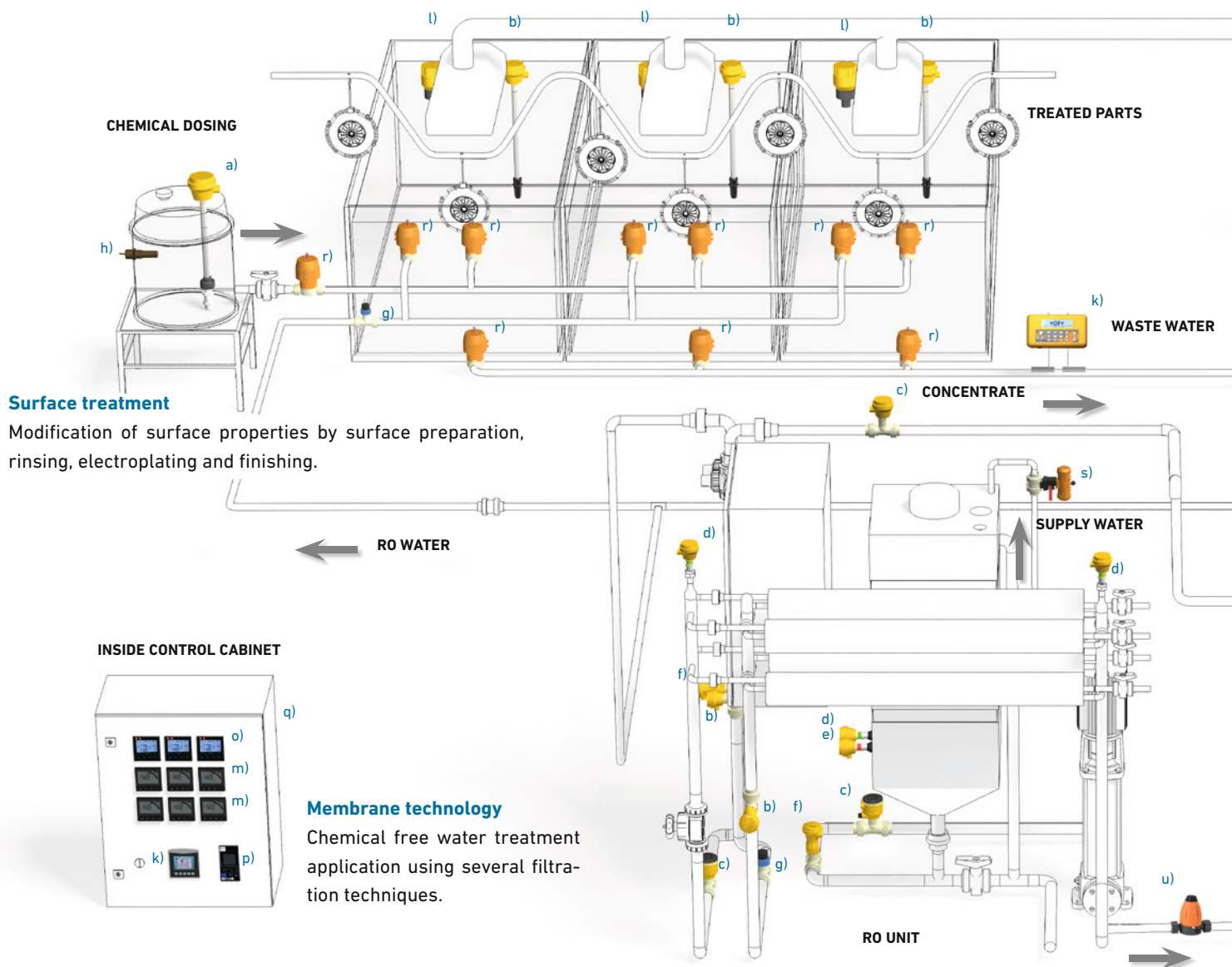
+ Easy to use designs

The automation solutions from GF Piping Systems are powerful, but only as complex as is really needed. This makes them easy to use, with easy-to-understand functions and intuitive menus. Employees are instructed and trained in a short time.



Industrial automation made easy

We have a comprehensive automation offering for your industrial applications.

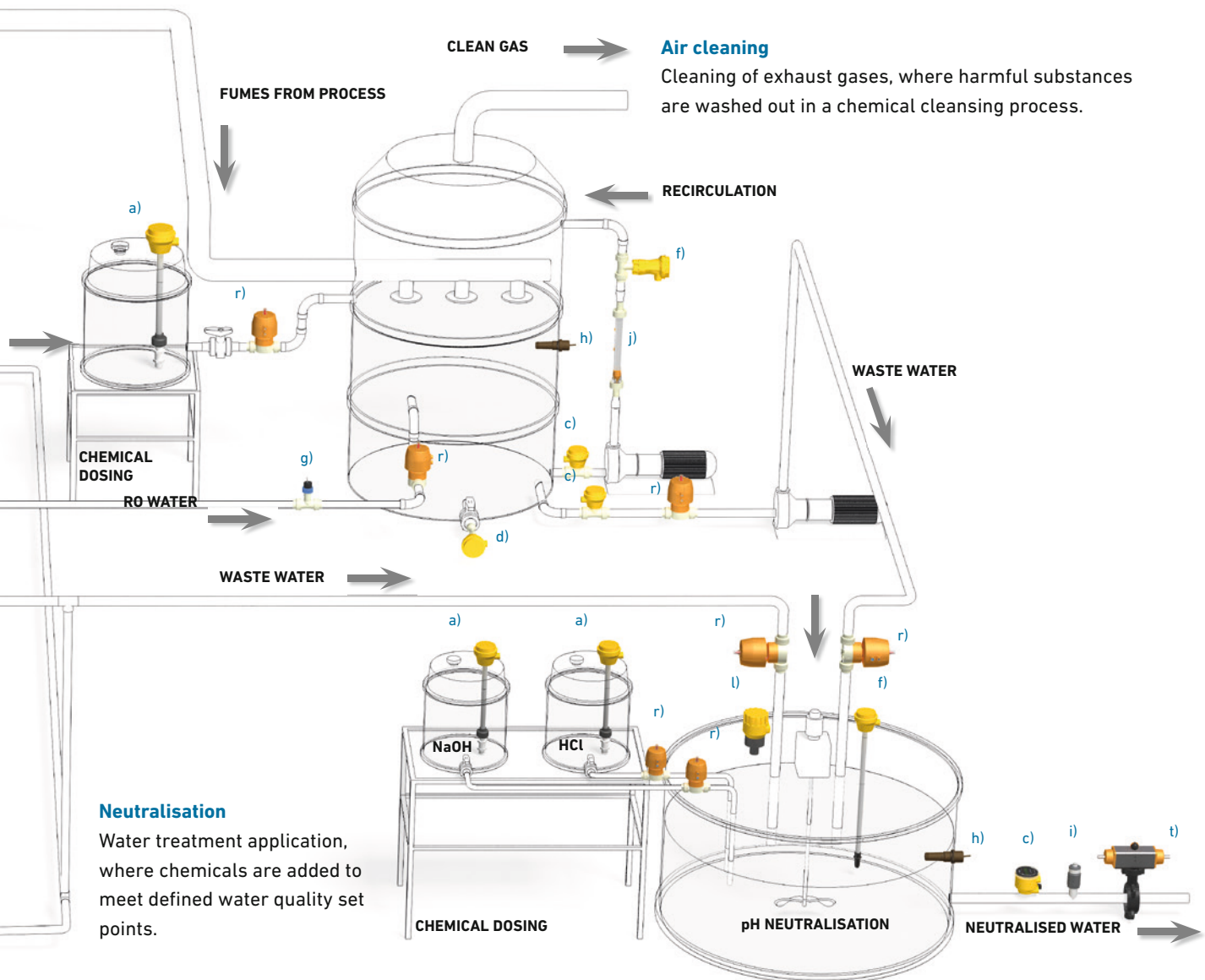


Measurement

- 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) Portaflow ultrasonic flowmeter type 330/220
- 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

An overview of the key products

Paddlewheel flow sensor



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)
- Wet tap sensors available



Rotor-X paddlewheel flow sensor type 2536

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



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)

Magmeter



FlowtraMag® Meter type 2580 (Hastelloy® C)

- 0.02 - 10 m/s (0.07 to 33 ft/s)
- DN15 - DN900 (½ to 36 in.)
- 10 bar @ 23 °C (145 psi @ 73 °F)
- 4 - 20 mA, 4 to 20 mA per ANSI-ISA 50.00.01 Class H



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



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

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Inline flow sensors



**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)

Transmitters



**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



**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

An overview about multi-parameter instruments is shown on page 19.

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)
- DN10-DN65 (3/8"-3 1/2")
- PN10
- Optional switch feedback
- Special scales on request

Ultrasonic flow meters



Ultrasonic flow meter
type U1000 V2

- 0.1 m/s-10 m/s
- d22-d180
- DC 12-24 V
- Output: 4-20 mA, pulse/frequency, Modbus
- Transit-time measurement



Ultrasonic wall mount flowmeter
type U3000 / U4000

- 0.1 m/s - 20 m/s
- d13 - d2000
- DC 24 V or AC 86 - 240 V
- Output: 4-20 mA, pulse/frequency, RS232, USB
- Integrated datalogger (U4000)
- Transit-time measurement



Portable ultrasonic flowmeter
type PF220 / PF330

- 0.1 m/s - 20 m/s
- d13-d2000
- Battery powered, AC 110-240 V
- Output: 4-20 mA, USB
- Integrated datalogger (PF330)
- Transit-time measurement



Ultrasonic doppler flowmeter
type UD2100

- Especially designed for dirty/aerated liquids
- 0.03 m/s - 12.2 m/s
- d16 - d4000
- DC 24 V or AC 86 - 240 V
- Output: 4-20 mA, pulse/frequency, Modbus
- Integrated datalogger
- Doppler measurement

Easy to install

pH/ORP sensors and instruments



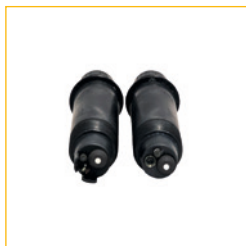
Threaded DryLoc pH/ORP electrode - type 2774 - 2777

- 0 - 14 pH, $\pm 2,000$ mV ORP
- Ryton body, PTFE junction
- Use sensor $\frac{3}{4}$ " threads for mounting
- DryLoc preamplifier connection with gold plated pins
- Suitable for submersible applications
- For use with 2751/2760 preamplifiers



DryLoc pH/ORP electrodes type 2724-2726

- 0 - 14 pH, $\pm 2,000$ mV ORP
- Ryton body, PE junction
- Use fittings for in-line applications or $\frac{3}{4}$ " NPT or ISO
- Suitable for submersible applications
- DryLoc preamplifier connection with gold plated pins



Differential DryLoc pH/ORP electrodes type 2744 - 2747

- 0 - 14 pH, ± 1500 mV ORP
- Ryton body, PTFE double junction
- Use sensor 1 inch threads for mounting
- DryLoc preamplifier connection with gold plated contacts
- For use with 2751/2760 preamplifiers



pH/ORP Wet-Tap assembly - type 3719/2756, Wet-Tap electrodes type 2757

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



DryLoc pH/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 ($\frac{1}{2}$ to 4 in.)



DryLoc pH/ORP Smart Sensor Electronics type 2751

- -1 - 15 pH, $\pm 2,000$ mV ORP
- PBT, CPVC (PVC-C)
- Probe health monitoring, glass impedance and broken glass detection
- Memory chip interface
- Use with 8900, 9900 and 9950
- In-line and submersible versions available



Conductivity/resistivity sensors and instruments



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



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



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



PVDF conductivity 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 or ISO
- Connection to 8900, 9900 and 9950 instruments or 2850 sensor electronics
- NIST certificate

Temperature and pressure sensors and instruments



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 (S³L)



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 FKM
- 1/2" union, dual threaded
- 4-20 mA or digital (S³L)

Level sensors and transmitters



Non-contact principle radar level transmitter type 2290

- Non-contact principle
- 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 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 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
- Allows for open channel measurement



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
- 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

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



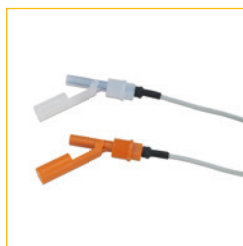
Ultrasonic gap switch type 2284

- 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
- Robust ultrasonic principle even in highly viscous liquid



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



Guided float switch type 2282

- 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
- Safe use in drinking- and waste water applications

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



**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



**Process optical dissolved
oxygen sensor type 2610**

- Optical DO measurement with no flow requirements
- No membranes or filling solutions
- Flexible communications, 4 – 20 mA or modbus 3-2610-51
- Measurement range: 0 – 20 mg/L, 0 – 200 % saturation

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 and 9950



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 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



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



9900 pH/ORP Calibrator

- 9900 battery operated calibrator
- Works with new line of 2751 Smart pH/ORP sensor electronics
- This unit can be kept in a lab or taken in to the field
- Runs on (8) AA Alkaline batteries (included)
- Allows the user the ability to rotate electrodes, meaning unplug an aged/dirty electrode replace with a pre-calibrated electrode



Flow wet-tap valve type 3519

- DN15-DN900 (½ to 36 in.)
- PVC
- 7 bar @ 20 °C (100 psi max @ 68 °F)
- Use with wet-tap paddlewheel flow sensors type 515 and 2536



Buffer solutions type pH/ORP

- NIST Traceable
- Easily identifiable colour 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



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

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
- 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 Fischer 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



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
- Special order up to 20 inch



Strap-on

- Iron 2.0 - 12.0"/SCH 80
- Schedule 80 available up to 48 inches/DN 1200
- Sch 52 and K9 metric ductile iron saddle 56 to 400 mm



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.



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, 4-20 mA output, 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 (4-20 mA)
- 2 Passive 4-20 mA loop outputs standard
- Options for up to 4 relays – dry contact or solid state
- Derived functions: ratio, difference, sum, % rejection, % recovery

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



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



Control

An overview of the key products

Modules



**Relay Module
type 9900**

- Adds two programmable dry-contact relays
- Hysteresis and time delay available for each relay
- Depending on the sensor type, there are a total of 23 relay modes available



**Conductivity/Resistivity Module
type 9900**

- Interfaces Conductivity/Resistivity and Salinity directly to the 9900 transmitter
- Conductivity/Resistivity and Salinity measurements may also be performed via the 2850 Sensor Electronics connected through the 9900 Digital (S³L) inputs)



**H COMM Module
type 9900**

- Allows communication between the 9900 Transmitter and a HART®-enabled device
- Allows access to primary and secondary measurements remotely
- Allows user to remotely adjust the 4 and 20 mA settings
- Not compatible with Batch module



**Batch Module
type 9900**

- Adds batch capability to the 9900 Transmitter (Generation II or later)
- Compatible with all Signet flow sensors
- Up to 10 batch sizes can be stored in one 9900 with customized names and K-Factors available for each batch
- Batch module plugs in the same location as the conductivity and 4-20 mA module. Only one can be used at one time



**4 to 20 mA Module
type 9900**

- Adds one extra 4-20 mA output to the
- Output can be used for primary or secondary measurement
- Settings are independent from 4-20 mA output in base unit



**Modbus Module
type 9900**

- Ability to transfer live readings, units of measure, and measurement status
- Connects to PLCs and SCADA system
- Supports the serial Modbus RS485 standard



**Relay Module
type 9950**

- Interface up to four binary inputs
- Binary inputs are compatible with either open collector or mechanical contacts
- The binary inputs can supply power to the four inputs or accepts powered outputs from external devices



**Dual Channel 4 to 20 mA Module
Current Loop Output Module
type 9950**

- Up to six 4 to 20mA current loops in one 9950
- Passive loops, requires external 12 to 24 VDC power



**Single Channel Conductivity/Resistivity
Module type 9950**

- Two conductivity modules can be added for conductivity, resistivity or salinity measurements



**Dual Channel Conductivity Module
type 9950**

- Monitor two different conductivities with a single module
- The module design allows for additional expansion opportunities with the 9950 such as additional current loop outputs



**Modbus Module
type 9950**

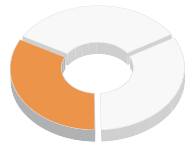
- Connects the 9950 to existing Modbus RTU, serial RS485 and automation networks
- Allows digital access to live measurement readings
- Simplifies the interfacing of the 9950 to automation networks

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

An overview of the key products

Actuators electric and pneumatic



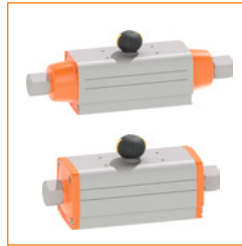
- Electric actuator smart type dEA25/45/120/250**
- 100 – 230 V AC, 24 V AC/DC
 - Torques from 10 Nm – 250 Nm
 - LED stripe for visual open/close 360° feedback
 - Heating element, position feedback (Open/Close/ Middle)
 - Connectivity via NFC and Wi-Fi Direct ensuring control



- 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



- Electric actuator type EA25, 45, 120, 250**
- 100 – 230 V AC, 24 V AC/DC
 - Torques from 25 Nm – 250 Nm
 - LED enforced position feedback
 - Standard: position feedback, heater
 - Optional: fail-safe return unit integrated, positioner, monitoring, profibus DP V0



- 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



- Electric actuator type EA15**
- 100 – 230 V AC, 24 V AC/DC
 - Torques from 20 Nm
 - LED enforced position feedback
 - Standard: position feedback, heater
 - Optional: fail-safe return unit integrated

Actuated butterfly valves



- Butterfly valve electric type 145/146/147***
- Electric actuated butterfly valve
 - Actuator type: dEA45/120/250 and EA45/120/250 (24 V, 110 – 230 V)
 - Plastic butterfly valve wafer/lugstyle
 - Butterfly valve type 567/578
 - PVC-U, PVC-C, ABS, PP-H, PVDF
 - 567: DN50 – DN600; 578: DN50 – DN300



- Butterfly valve electric type 038-E/039-E**
- Electric actuated butterfly valve
 - Actuator type: dEA45/120/250 and EA45/120/250 (24 V, 110 – 230 V)
 - Metal butterfly valve wafer/lugstyle
 - Butterfly valve type 038/039
 - 038/039: Ductile iron with powder/epoxy/rilsan coating
 - 038: DN50 – DN600, 039: DN50 – DN1200

* Predecessor type 140/143/144 with electric actuators type EA31/42

Easy to modify

Actuated butterfly valves



**Butterfly valve pneumatic
type 240/243/244**

- Pneumatic actuated butterfly valve
- Actuator type: PA30-PA90
- Plastic butterfly valve wafer/lugstyle
- Butterfly valve type 567/578
- PVC-U, PVC-C, ABS, PP-H, PVDF
- 567: DN50 - DN600; 578: DN50 - DN300



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

- Pneumatic actuated butterfly valve
- Actuator type: PA30 - PA70
- Metal butterfly valve wafer/lugstyle
- Butterfly valve type 038/039
- 038/039: ductile iron with powder/epoxy coating/rilsan coating
- 038: DN50 - DN600; 039: DN50 - DN1200

Actuated ball valves



**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 Pro
- ABS, PVC-C, PVC-U, PP-H, PVDF
- DN10 - DN100



**Electric ball valve
type 127**

- Electric actuated 2-way ball valve
- Actuator type: EA15 (24 V, 110-230 V)
- Actuating angle 90°
- Ball valve 546 Pro
- ABS, PVC-C, PVC-U, PP-H, 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
- ABS, PVC-C, PVC-U, PP, PVDF
- DN10 - DN50



**Electric ball valve
type 167 - 170****

- Electric actuated 3-way ball valve
- Actuator type: dEA25 and EA25 (24 V, 110-230 V)
- Actuating angle 90°; max. 180°
- Ball valve 543
- ABS, PVC-C, PVC-U, PP, PVDF
- DN10 - DN50



**Electric ball valve
type 179 - 184***

- Electric actuated 2-way ball valve
- Actuator type: dEA25/45/120 and EA25/45/120(24 V, 110 - 230 V)
- Actuating angle 90°
- Ball valve 546 Pro
- ABS, PVC-C, PVC-U, PP-H, PVDF
- EA25 DN10-DN50; EA45/120 DN65-DN100



**Electric ball valve
type 104**

- Electric actuated 2-way ball valve
- Actuator type: EA04 (24V, 85-230V)
- Actuating angle 0 - 90°
- Ball valve 546 Pro
- PVC-C, PVC-U, PP-H
- DN10 - DN50 3/8 - 2"
- Limited access sorry range
- Low cycle applications

* Predecessor type 130 - 135 with electric actuators type EA21 / 31

** Predecessor type 185 - 188 with electric actuator type EA21

Actuated diaphragm valves



**Diaphragm valve
type 604 / 605**

- PVC-U, PVC-C, PP-H, PVDF
- EPDM, FKM, PTFE / EPDM, PTFE / FKM
- DN15
- PN6
- pneumatic actuated FC, FO, DA



**Diaphragm valve
DIASTAR Sixteen**

- PVDF, PVDF-HP
- EPDM, FKM, PTFE/EPDM, PTFE/FKM
- DN15-DN50
- PN16
- pneumatic actuated FC, FO, DA
- Accessories available



**Diaphragm valve DIASTAR
Six**

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



**Diaphragm valve
DIASTAR 025**

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



**Diaphragm valve
DIASTAR Ten**

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



**eDiastar – type 514 (threaded sockets)
and type 515 (spigots)**

- PVC-U, PVC-C, ABS, PP-H, PVDF
- Retrofittable: PVDF-HP
- EPDM, PTFE/EPDM, NBR, FKM, PTFE/FKM
- d32/DN25 and d63/DN50
- DN25: PN10 / DN50: PN6
- electric actuated FC



**Diaphragm valve
DIASTAR TenPLUS**

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

Actuated process control valves



**Solenoid valve
type 157**

- direct acting pivoted armature valve
- 2/2-Ways
- PVC-U
- EPDM, FKM
- 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, FKM
- 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, FKM
- 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, FKM
- 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, FKM
- DN10 - DN50
- 0.5 - 9 bar or 0.3 - 3 bar
- Manometer with or without gauge guard optional



**Pressure reducing valve
type V82**

- PVC-U, PP, PVDF
- EPDM, EPDM-PTFE-coated
- V82 DN65 - 80: 0.5 - 6 bar
DN100: 0.5 - 4 bar



**Pressure retaining valve
type 586**

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



**Pressure retaining valve
type V86**

- PVC-U, PP, PVDF
- EPDM, EPDM-PTFE-coated
- V86 DN65 - 80: 1 - 6 bar
DN100: 1 - 4 bar

Electric accessories



Monitoring board (EA15 - 250)

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



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



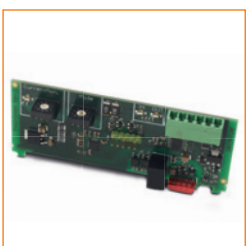
Fail-safe return unit (E15 - 250)

- 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



Modbus

- Modbus interface network upgrade for EA25-250 electric actuators
- Integrated in actuator housing (no external box)
- Control and setup functions via Modbus
- Serial Modbus via RS485
- Bidirectional Modbus enabling control & live diagnostics



Positioner (EA25 - 250)

- Input 4 - 20mA or 0 - 10V (can be inverted)
- Output/Feedback 4 - 20 mA (can be inverted)
- Motor current monitoring on board
- "Plug & Play" installation



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 $\frac{1}{8}$, G $\frac{1}{4}$, G $\frac{3}{8}$
- 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 $\frac{1}{8}$, G $\frac{1}{4}$
- 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: Aluminum
- 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 connection
- 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 connection
- With visual position indication



**Stroke limiter/ manual
override**

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

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.



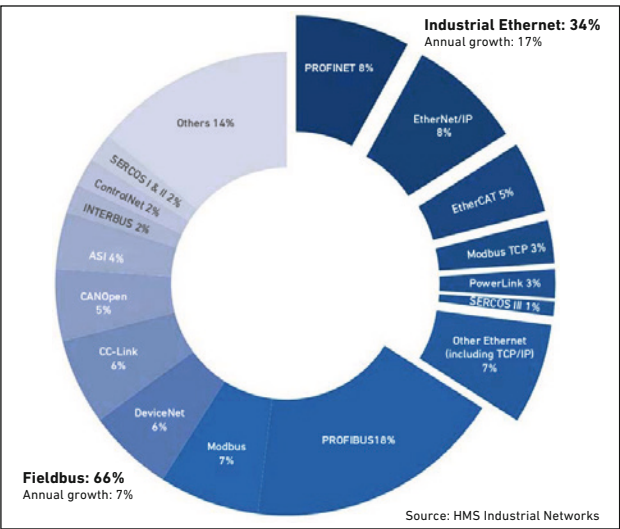


Actuation

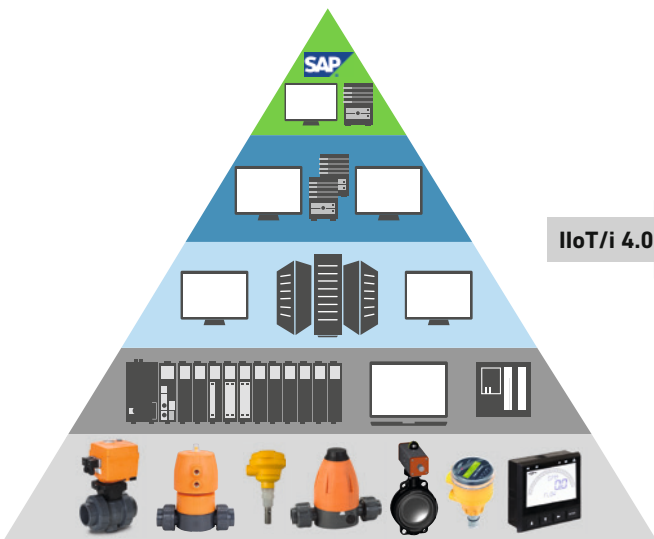
Communication in industry

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.

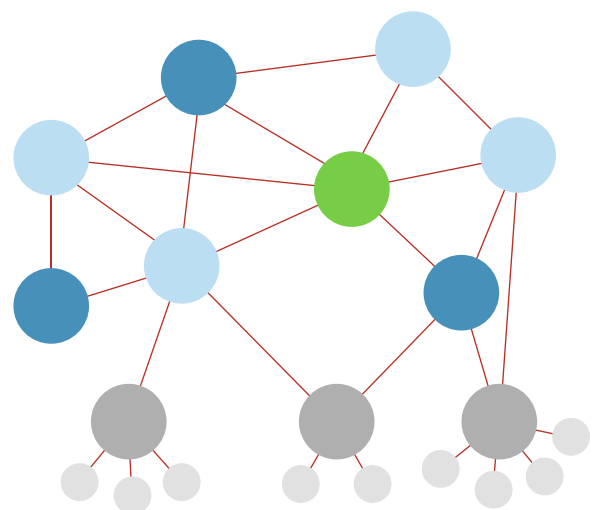
Fieldbus vs. industrial ethernet



Today (Automation pyramid/hierarchic)



Future (Cyber-Physical-Systems)





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 (EA25-250)

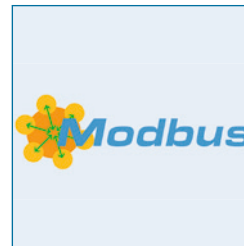
- Connectable to Profibus DPVO networks
- Using all the advantages of the standard full plastic GF electric actuator



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

Modbus



Modbus (EA25-250)

- Modbus interface network upgrade for EA25-250 electric actuators
- Using all the advantages of the standard full plastic GF electric actuator
- For 24 VAC/DC as well as for 100-230 VAC actuator versions
- Serial Modbus via RS485
- Bidirectional Modbus enabling control & live diagnostics



Transmitter type 9900

- Optional module available



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



Ultrasonic level sensor type 2260/ ultrasonic level transmitter type 2270

- Non-contact principle
- 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



AS-Interface for manual valves with feedback

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



Non-contact principle radar level transmitter type 2290

- Non-contact principle
- 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



AS-Interface for sensor with switch output

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



AS-Interface for electric actuators

- Integrated control and electric feedback
- For 24 V DC actuators
- For EA11 - EA42
- Manual override standard



AS-Interface for pneumatic stroke actuators

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

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 Pro**

- ABS, PVC-C, PVC-U, PP-H, PVDF
- EPDM, FKM, ball seat: PTFE, PVDF
- DN10 - DN100
- Up to PN16 = PVC-U, PVC-C, PVDF;
up to PN10 = PP-H, ABS
- Lockable lever, multifunctional module
- Linear version



**Linear ball valve
type 546**

- PVC-U, PVC-C, ABS, PP-H, PVDF
- DN15 - DN50
- Lockable lever
- Multifunctional module



**Ball valve
type 542**

- PVC-U / PVC-C PP-H
PE (blue lever)
PTFE (red lever)
- EPDM, FKM, ball seat: PTFE, PVDF
- DN 10 - 50 (3/8"-2")
- PN 10 for PP-H
PN 16 for PVC-U and PVC-C



**3-Way ball valve
type 543**

- ABS, PVC-C, PVC-U, PP-H, PVDF
- EPDM, FKM, ball seat: PTFE, PVDF
- DN10 - DN50
- Up to PN10
- Lockable Lever, multifunctional module



**Metering ball valve
type 523**

- PVC-U, PP-H, PVDF
- EPDM, FKM, Ball Seat: PTFE
- DN10 - DN15
- Up to PN16



**Ball valve
type 375**

- PVC-U, PVC-C
- EPDM, FKM, ball seat: PTFE
- DN10 - DN100
- PN16
- Not actuated

Manual Diaphragm valves



**Diaphragm Valve
type 514**

- PVC-U, PVC-C, ABS, PP-H, PVDF,
PVDF-HP
- EPDM, PTFE/EPDM, FKM, PTFE/FKM
- 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, FKM, PTFE/FKM
- 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, FKM, PTFE/FKM
- 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/FKM
- DN20 - DN20 : d110 - d63
- Up to PN16
- Lockable handwheel
- Electrical feedback module

Valves

Manual butterfly valves



**Butterfly valve manual
type 567**

- ABS, PVC-C, PVC-U, PP-H, PVDF
- Sealings: EPDM, FKM, PTFE/FKM
- DN50 - DN600
- PN10
- Lever, Gear, 230 V o. 24 V, FC/FO/DA
- Optional: Integrated position indicator in valve body



**Metal butterfly valve
type 038/039**

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



**Butterfly valve manual
type 578**

- ABS, PVC-C, PVC-U, PP-H, PVDF
- Sealings: EPDM, FKM, PTFE/FKM
- DN50 - DN300
- PN10
- Lever, gear, 230 V o. 24 V, FC/FO/DA
- Optional: Integrated position indicator in valve body

Accessories



Manual interface module

- Accessory for manual ball valve type 546 Pro
- Possibility of electrical feedback, incl. LED in combination with double sensor (accessory)
- Inclusive labelling clip



**Manual spring return unit
Retrofit kit**

- Manual spring return unit („Dead-man lever“) ensures that the valve closes after operation
- For safe sampling, dosing, cleaning or draining - Retrofit possible with ball valve 546 (Pro)
- Includes transparent clip for valve labelling
- Option: double sensor for position feedback



Interface module for GF actuators

- Accessory for ball valve type 546 Pro
- Interface module acts as interface for GF actuators
- Possibility of electrical feedback, incl. LED in combination with double sensor (accessory)
- Inclusive labelling clip



**Electrical feedback
module**

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



Interface module for norm actuators

- Accessory for ball valve type 546 Pro
- For ball valve norm interfaces according to EN ISO 5211
- Inclusive labelling clip



Ball valve labeling

- Labelling system for ball valve 546 Pro/543/523/547



**Double sensor for electrical
position feedback**

- Accessory for ball valve type 546 Pro
- Enables electrical position feedback, incl. LED, in combination with GF interface module
- IP67 rating



**Integrated position
indicator**

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

Process control valves



**Check valve
type 561/562**

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



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

- ABS, PVC-C, PVC-U, PP-H, PVDF
- EPDM, FKM
- DN10 - DN100
- Up to PN16
- Type 595 with spring
- Float PP-H / PVDF

Process control valves



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

- PVC-U, ABS)
- EPDM, FKM
- DN10 - DN80
- PN10



**Wafer check valve
type 369**

- PVC-U, PP-H, PVDF
- EPDM, FKM
- DN32 - DN300, 1¼ - 12"
- PN10



**Line strainer
type 305/306**

- PVC-U, PVC-C, ABS, PP-H, PVC-U transparent
- EPDM, FKM
- DN15 - DN50, PVC-U up to DN80
- PN10
- Screen: stainless-steel and PVC-U



**Throttle valve
type V251**

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



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

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

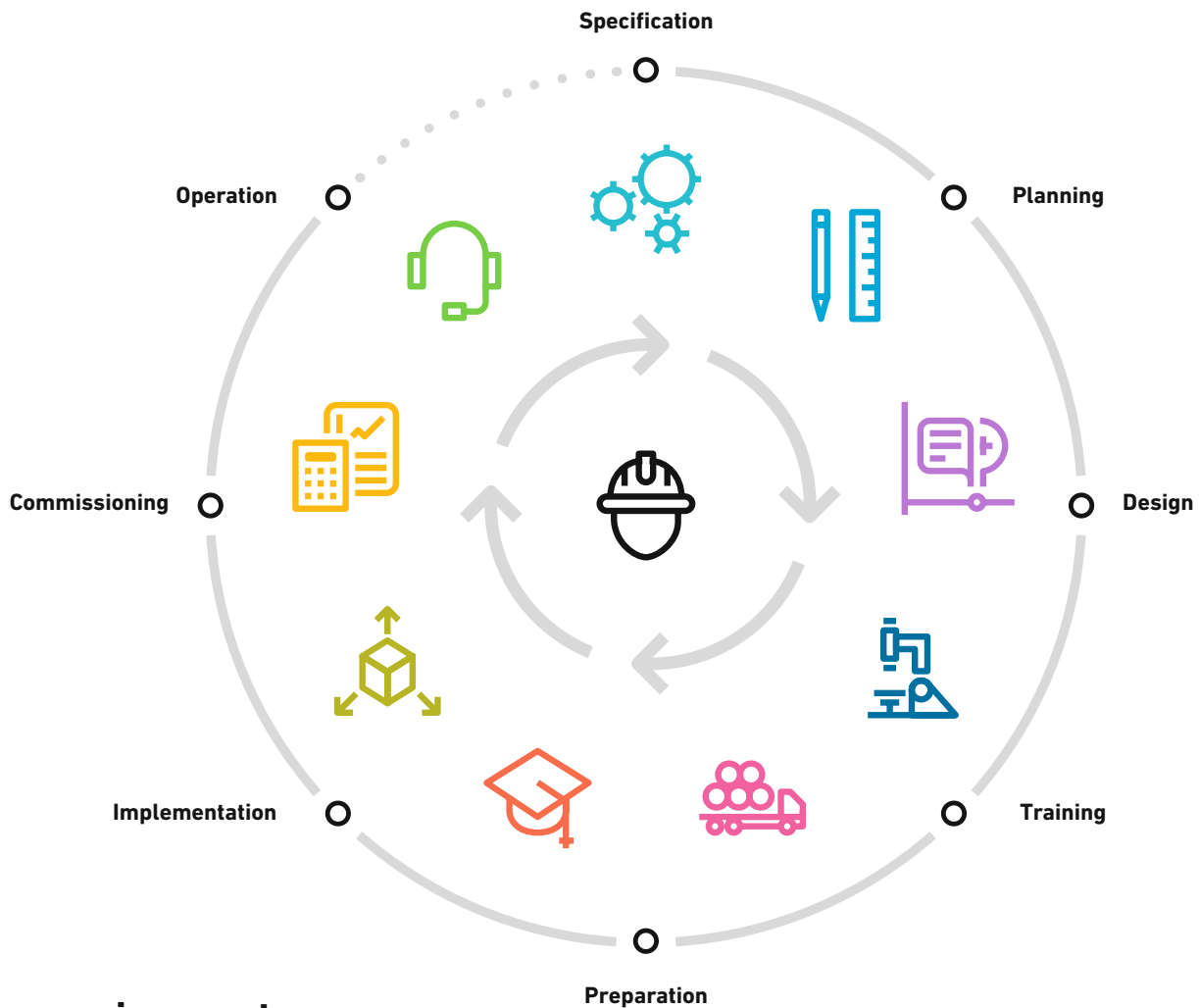


**Gauge guard
type Z500/501**

- True plastic design (no metal screws!)
- PVC-U, PP-H, PVDF
- EPDM, EPDM-PTFE-coated
- DN20 or DN 25
- PN10
- With or without pressure gauge

Taking care of your needs

With Specialized Solutions, GF Piping Systems supports the design and installation of state of the art plastic piping systems, so that owners and planners can concentrate on their daily business without interruption. GF Piping Systems is present every step of the way, from providing planning support on new projects to testing the condition of old systems.



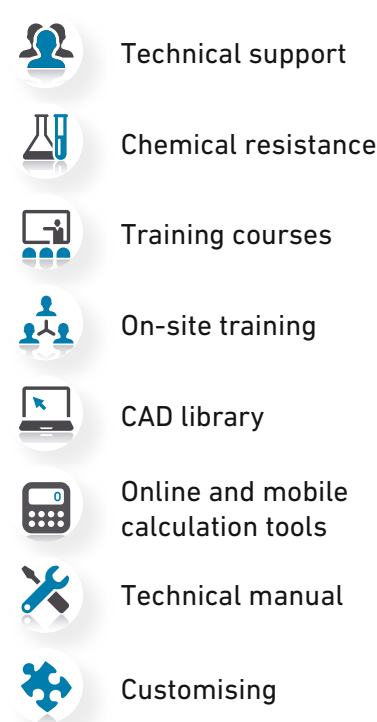
A premium partner you can count on

With over 60 years of experience with plastic, GF Piping Systems provides all the expertise and equipment necessary for a smooth installation and operation. Our range of Specialized Solutions covers every aspect of a project's process, from the design phase all the way through to installation and maintenance. Construction projects come with a number of challenges. By trusting GF Piping Systems as a partner, you can avoid costly interruptions or even failure of your operation.

Excellent training and documentation technology ensures installers can perform at their best, implementing a reliable system with a monitored workflow and eradicating any potential for failure. In order to ascertain the state of piping systems and welds, high-precision testing and analysis eliminates any doubt about the condition of a system and provides the necessary information to decide on replacement for optimum economic performance. Specialized Solutions simply provides the all-round package for worry-free installation and operation.

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

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.

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 more than 100 countries.

www.gfps.com

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