

# CleanStar® HydraLine®

## Pressure Measurement Systems

Produktübersicht und Technische Daten



# CleanStar® HydraLine®

## SYNERGY EFFECTS USED AND TRANSLATED INTO PRACTICE **HydraLine®**

### WE CAN ALSO HANDLE PRESSURE

**GEMÜ®** has combined many years of experience in the processing high purity fluoropolymers. With our production of metal-free PFA valves under clean room conditions and with the expertise of one of the leading manufacturers of pressure measurement systems we introduce the **HydraLine®** product range.

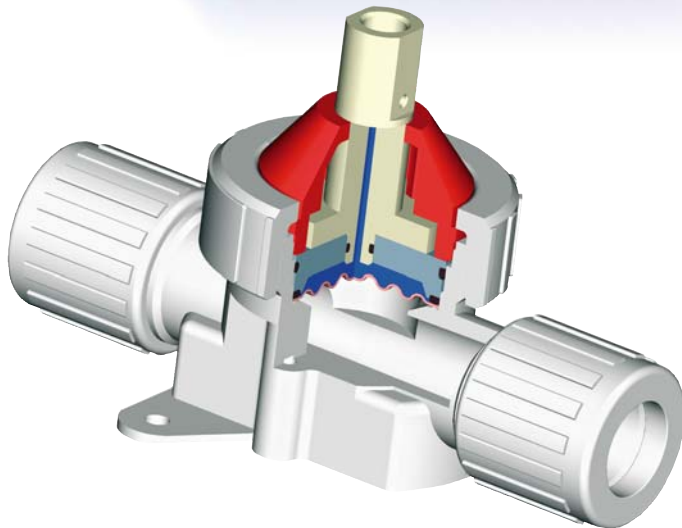
### YOUR APPLICATIONS

- Chemical distribution systems
- Process equipment
- Wet benches
- Cleaning and etching installations

### OUR SOLUTION

A product range of pressure measurement devices with PFA transmitter, specifically designed for ultra high purity chemicals - **HydraLine®**.

A further addition to our **CleanStar®** range:  
**HydraLine®** Pressure measurement systems that deliver what they promise.



3-D model of a **HydraLine®** pressure measurement system

- ▶ Increased long term reliability, transmitter design reduces mechanical stress on the diaphragm and thus
- ▶ Isolation of pressure sensor from process medium by patented double diaphragm system
- ▶ Vented double diaphragm protects against cross-diffusion of process medium to the transmitter system

PRESSURE MEASUREMENT SYSTEMS  
ON A SOLID  
FOUNDATION - **CleanStar®**

A PROVEN TECHNOLOGY



**Hydra-Gauge C30**

Pressure gauge

- Pressure ranges 0...2.5 bar, 0...4 bar, 0...6 bar as well as PSI and kPa ranges
- PTFE coated gauge housing
- Gauge 360° rotatable
- Switch points for MIN/MAX settings
- In-Line and Dead-End version

**YOUR ADVANTAGES AT ONE GLANCE**

- Minimal deadleg
- The proven GEMÜ **CleanStar®** technology is the foundation of the transmitter
- All wetted parts made from High Purity PFA
- Working medium isolated from the gauge by a PFA double diaphragm
- Pressure gauge can be positioned through 360°

OVERVIEW **Hydra-Gauge C30**

Connection	Nominal size		C30	
	Inch	DN	In-Line	Dead-End
Flare connection	1/4	4	on request	•
	3/8	6	•	•
	1/2	10	•	•
	3/4	15	•	on request
	1	20	•	on request
	1 1/4	25	•	on request
NPT female thread*	1/4	4	-	•

\* further sizes/connections on request

TO ENSURE THE DETECTION  
OF YOUR MOST IMPORTANT  
VALUES

RELIABLE MEASUREMENT FOR YOUR PROCESS



**Hydra-Sensor C31**  
Pressure transmitter

- Pressure ranges 0...2.5 bar, 0...4 bar, 0...6 bar or PSI and kPa ranges
- L-plug IP 65 or flying lead IP 67 (housing Epoxy coated)
- Transmitter 360° rotatable
- Pluggable LCD possible with L-plug version
- In-Line and Dead-End version
- For corrosive media type C 32 is recommended (see page 5)

**YOUR ADVANTAGES AT ONE GLANCE**

- Minimal deadleg
- The proven GEMÜ **CleanStar®** technology is the foundation of the transmitter
- All wetted parts made from High Purity PFA
- Working medium isolated from the transmitter by a PFA double diaphragm
- Transmitter can be positioned through 360°

OVERVIEW **Hydra-Sensor C31**

Connection	Nominal size		C31	
	Inch	DN	In-Line	Dead-End
Flare connection	1/4	4	on request	•
	3/8	6	•	•
	1/2	10	•	•
	3/4	15	•	on request
	1	20	•	on request
	1 1/4	25	•	on request
NPT female thread*	1/4	4	-	•

\* further sizes/connections on request

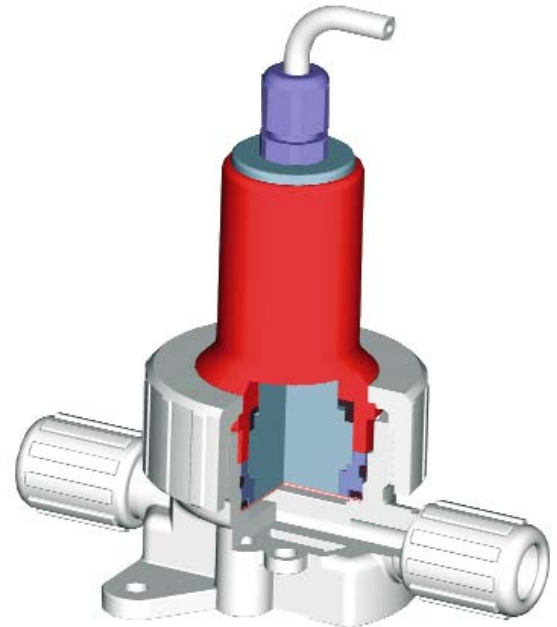
# CleanStar® HydraLine®

PRESSURE CAN ALSO BE MEASURED DRY

## Hydra-Dry

### THE DRY SOLUTION

- ▶ No transmission fluid
- ▶ Ceramic sensor
- ▶ Vented double diaphragm isolates the sensing element
- ▶ Patented Hydra-Dry technology
- ▶ All plastic housing



3-D model of a **Hydra-Dry** pressure measurement system



### Hydra-Dry C32 Transmitter

- Pressure ranges 0...2.5 bar, 0...4 bar, 0...6 bar or PSI and kPa ranges
- Flying lead IP 67, FEP jacketed
- Transmitter 4...20 mA, 2-wire
- Integrated or separate\* gauge
- In-Line/Dead-End



In-Line Hydra-Dry C32

Dead-End Hydra-Dry C32

### OVERVIEW Hydra-Dry C32

Connection	Nominal size		C32	
	Inch	DN	In-Line	Dead-End
Flare connection	1/4	4	on request	•
	3/8	6	•	•
	1/2	10	•	•
	3/4	15	•	on request
	1	20	•	on request
	1 1/4	25	•	on request
NPT female thread*	1/4	4	on request	•

\* further sizes/connections on request



**GEMÜ**® VALVES, MEASUREMENT  
AND CONTROL SYSTEMS